

10/S21,119

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	850	(544/242,514/255.05).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/03 16:25
L2	10	L1 AND N-PHENYL	US-PGPUB; USPAT	OR	ON	2007/07/03 15:30
L3	1	L2 AND DIMETHYLPIPERAZINE	US-PGPUB; USPAT	OR	ON	2007/07/03 15:31
L4	1	("6673799").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/03 15:37
L5	1	("3875229").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/03 15:37
L6	1667	(544/295,514/255.05).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/03 16:25
L7	27	l6 and n-phenyl	US-PGPUB; USPAT	OR	ON	2007/07/03 16:25
L8	2	l7 and dimethylpiperazine	US-PGPUB; USPAT	OR	ON	2007/07/03 16:26

10/521,119

~~10/521,119~~

Search after election - no hits

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAEAL1624

PASSWORD:

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SESSION RESUMED IN FILE 'HOME' AT 15:01:15 ON 03 JUL 2007

FILE 'HOME' ENTERED AT 15:01:15 ON 03 JUL 2007

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.63	0.63

FULL ESTIMATED COST

=> FILE REG

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.63	0.63

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 15:01:27 ON 03 JUL 2007

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STRUCTURE FILE UPDATES: 2 JUL 2007 HIGHEST RN 940883-34-1

DICTIONARY FILE UPDATES: 2 JUL 2007 HIGHEST RN 940883-34-1

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10521119election.str

L1 STRUCTURE UPLOADED

=> D L1

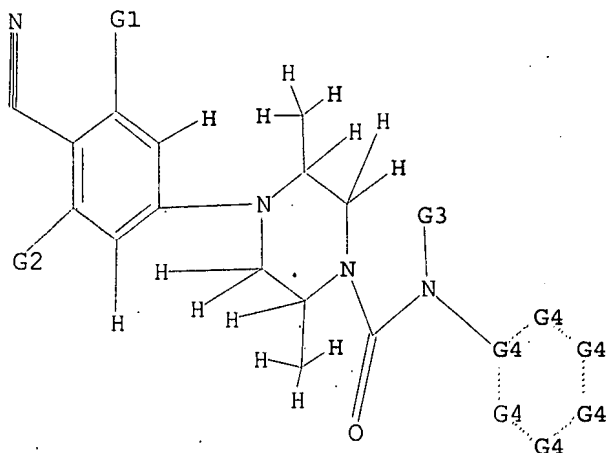
L1 HAS NO ANSWERS

L1 STR

<12/04/2007>

Erich Leese

10/513699



G1 Me,CF₃,MeO,EtO,n-PrO,i-PrO,n-BuO,i-BuO,s-BuO,t-BuO,CN,X

G2 H,Cl,Br,F,I,At,MeO,EtO

G3 H,Ak

G4 C,N

Structure attributes must be viewed using STN Express query preparation.

=> S L1

SAMPLE SEARCH INITIATED 15:02:01 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 15 TO ITERATE

100.0% PROCESSED 15 ITERATIONS

12 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 68 TO 532

PROJECTED ANSWERS: 33 TO 447

L2 12 SEA SSS SAM L1

=> S L1 FULL

FULL SEARCH INITIATED 15:02:05 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 288 TO ITERATE

100.0% PROCESSED 288 ITERATIONS

242 ANSWERS

SEARCH TIME: 00.00.01

L3 242 SEA SSS FUL L1

=> FILE CAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.73

FILE 'CAPLUS' ENTERED AT 15:02:10 ON 03 JUL 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

<12/04/2007>

Erich Leese

10/513699

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FILE COVERS 1907 - 3 Jul 2007 VOL 147 ISS 2
FILE LAST UPDATED: 2 Jul 2007 (20070702/ED)

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=> S L3 FULL

L4 5 L3

=> D IBIB ABS HITSTR TOT

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1343030 CAPLUS

DOCUMENT NUMBER: 144:246522

TITLE: (+)-(2R,5S)-4-[4-Cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(trifluoromethyl)pyridin-3-yl]piperazine-1-carboxamide (YM580) as an Orally Potent and Peripherally Selective Nonsteroidal Androgen Receptor Antagonist

AUTHOR(S): Kinoyama, Isao; Taniguchi, Nobuaki; Toyoshima, Akira; Nozawa, Eisuke; Kamikubo, Takashi; Imamura, Masakazu; Matsuhisa, Akira; Samizu, Kiyohiro; Kawanimani, Eiji; Niimi, Tatsuya; Hamada, Noritaka; Koutoku, Hiroshi; Furutani, Takashi; Kudoh, Masafumi; Okada, Minoru; Ohta, Mitsuaki; Tsukamoto, Shin-Ichi

CORPORATE SOURCE: Drug Discovery Research, Astellas Pharma Inc., Ibaraki, 305-8585, Japan

SOURCE: Journal of Medicinal Chemistry (2006), 49(2), 716-726
CODEN: JMCMAR; ISSN: 0022-2623

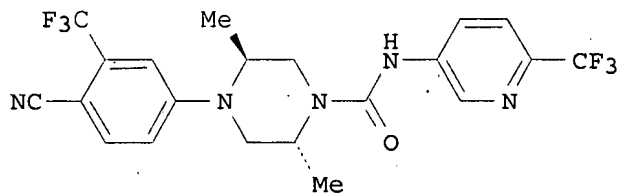
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

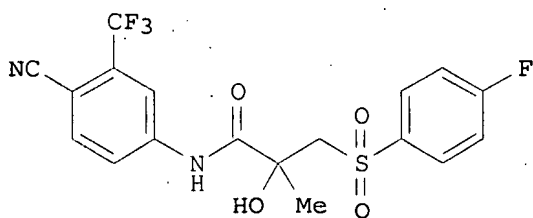
LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:246522

GI



I



II

AB Trans-N-aryl-2,5-dimethylpiperazine-1-carboxamides such as I are prepared as androgen receptor antagonists; I is found to be particularly effective at inhibiting human androgen receptor-mediated transcription and is evaluated in vitro and in vivo to determine its activity and pharmacol.

N-aryl-2,5-dimethylpiperazine-1-carboxamides are prepared by reaction of aromatic amines with Ph chloroformate followed by reaction of the Ph carbamate intermediates with 1-(4-cyano-3-trifluoromethylphenyl)-trans-2,5-dimethylpiperazine; the piperazinecarboxamides are also prepared by conversion of arylcarboxylic acids to the corresponding acyl azides followed by Curtius rearrangement and reaction of the intermediate isocyanates with 1-(4-cyano-3-trifluoromethylphenyl)-trans-2,5-dimethylpiperazine. The enantiomers of trans-1-(4-cyano-3-trifluoromethylphenyl)-trans-2,5-dimethylpiperazine react with the isocyanate generated from 6-(trifluoromethyl)-3-pyridinecarboxylic acid to yield I and its enantiomer; I is significantly more active as an androgen receptor antagonist than its enantiomer. Unlike the known antiandrogenic agent bicalutamide II, I decreases the weight of rat ventral prostate in a dose-dependent manner ($ED_{50} = 2.2 \text{ mg/kg/day}$), and induces its maximum antiandrogenic effect (comparable to that of surgical castration) without significantly affecting serum testosterone levels. I is a promising clin. candidate for prostate cancer monotherapy.

IT 375362-01-9P

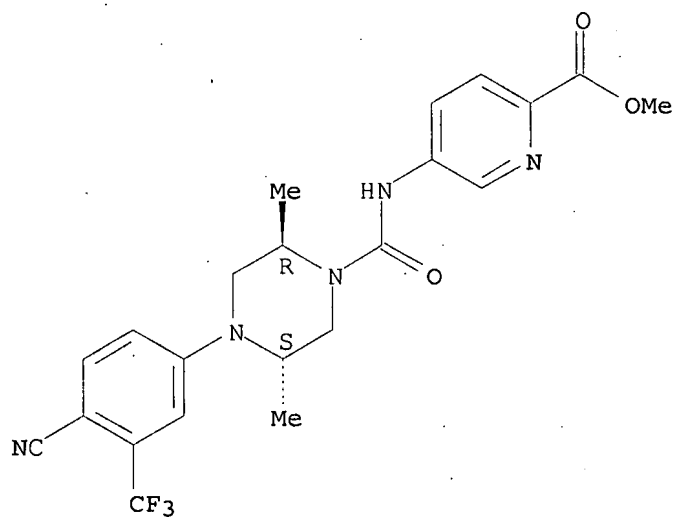
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation and in vitro and in vivo activities of trans-4-aryl-2,5-dimethylpiperazinecarboxamides as human androgen receptor antagonists)

RN 375362-01-9 CAPLUS

CN 2-Pyridinecarboxylic acid, 5-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 262294-49-5P 262294-50-8P 262294-83-7P
 262295-20-5P 375360-32-0P 876460-28-5P
 876460-29-6P 876460-30-9P 876460-31-0P
 876460-32-1P 876460-33-2P 876460-34-3P
 876460-35-4P 876460-36-5P 876460-37-6P
 876460-38-7P 876460-39-8P 876460-40-1P
 876460-41-2P 876460-42-3P 876460-43-4P
 876460-45-6P

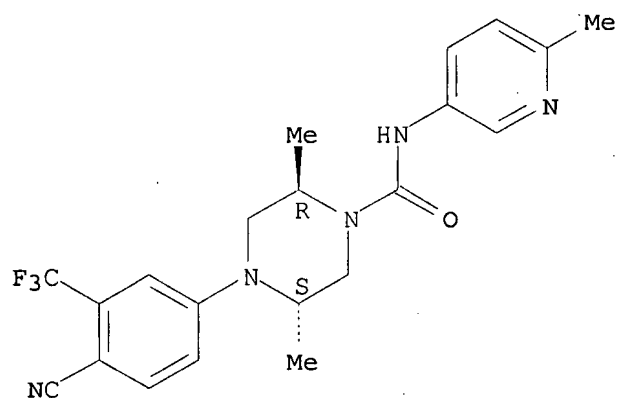
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and in vitro and in vivo activities of trans-4-aryl-2,5-dimethylpiperazinecarboxamides as human androgen receptor antagonists)

RN 262294-49-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(6-methyl-3-pyridinyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

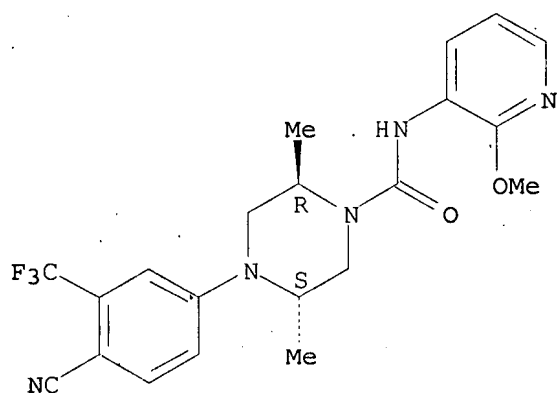


RN 262294-50-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-methoxy-3-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

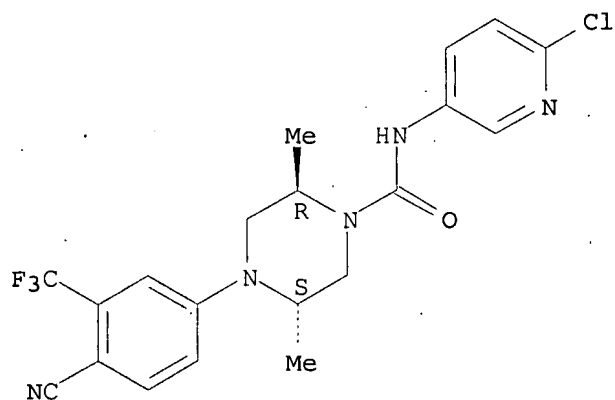
10/513699



RN 262294-83-7 CAPLUS

CN 1-Piperazinecarboxamide, N-(6-chloro-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

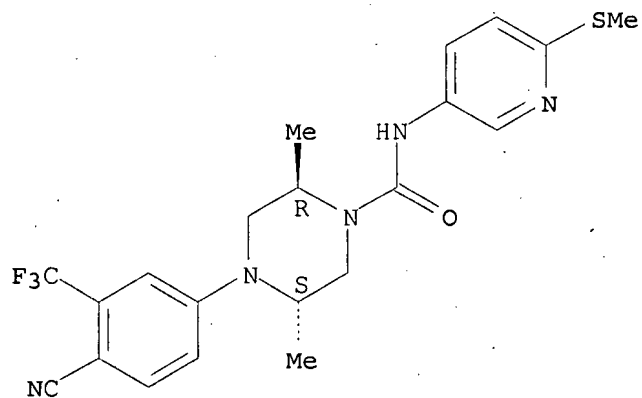


RN 262295-20-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(methylthio)-3-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

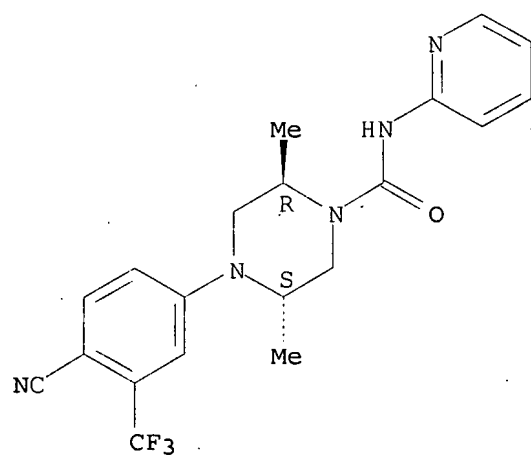
10/513699



RN 375360-32-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-2-pyridinyl-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



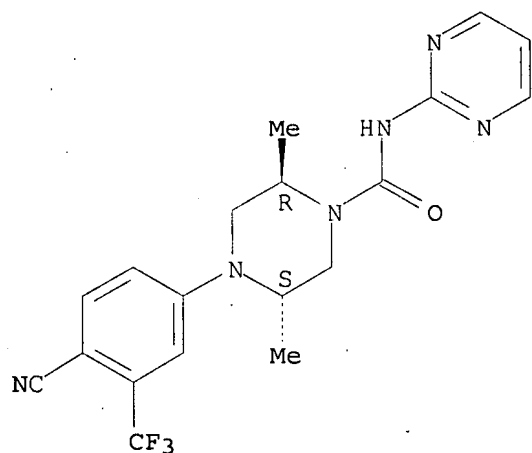
● HCl

RN 876460-28-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-2-pyrimidinyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

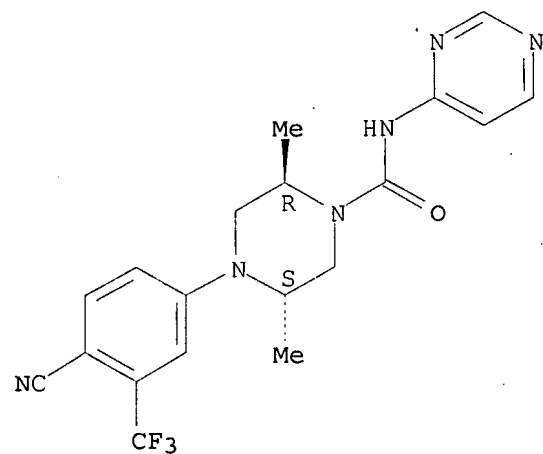
10/513699



RN 876460-29-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-4-pyrimidinyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

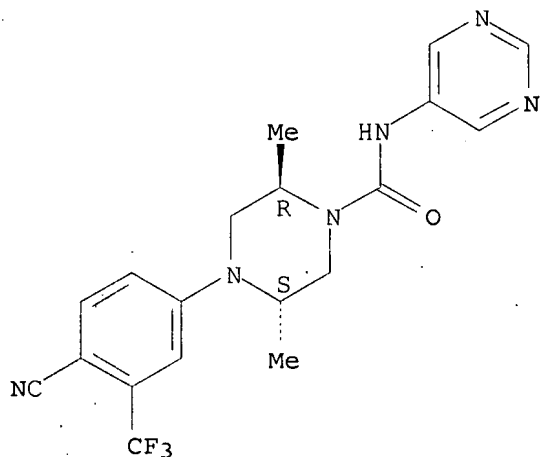


RN 876460-30-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-5-pyrimidinyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

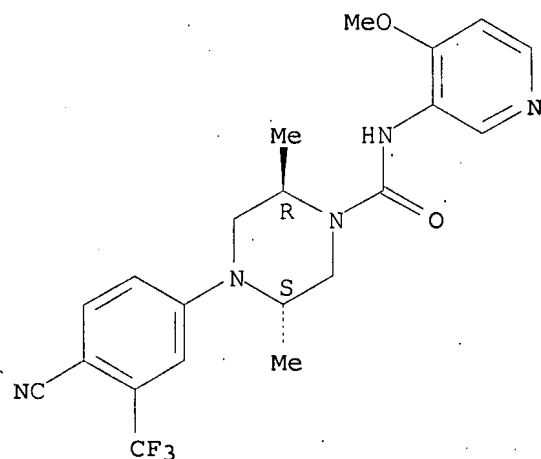
10/513699



RN 876460-31-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(4-methoxy-3-pyridinyl)-2,5-dimethyl-, monohydrochloride, (2R,5S)-rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



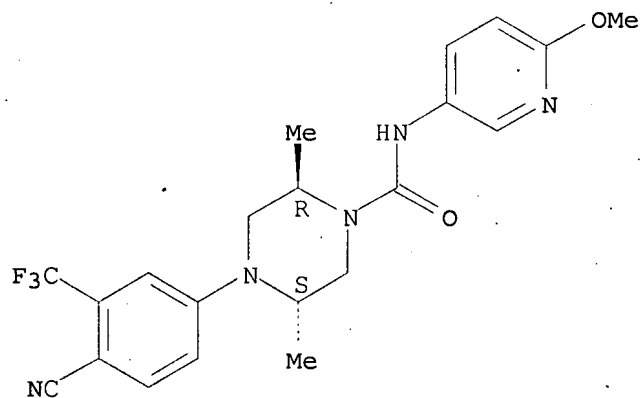
● HCl

RN 876460-32-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(6-methoxy-3-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

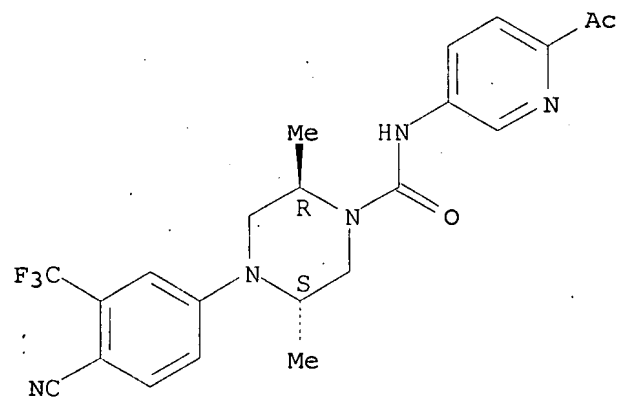
10/513699



RN 876460-33-2 CAPLUS

CN 1-Piperazinecarboxamide, N-(6-acetyl-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

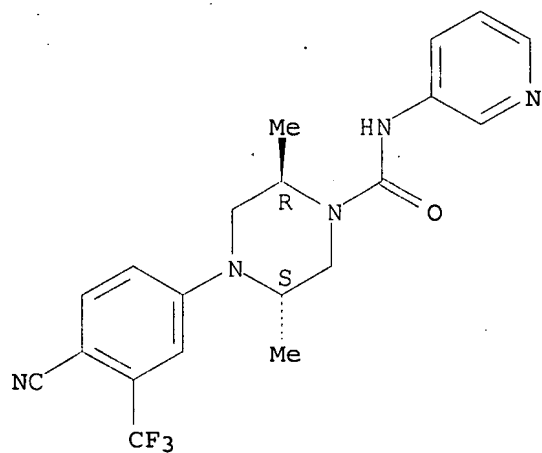


RN 876460-34-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-3-pyridinyl-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

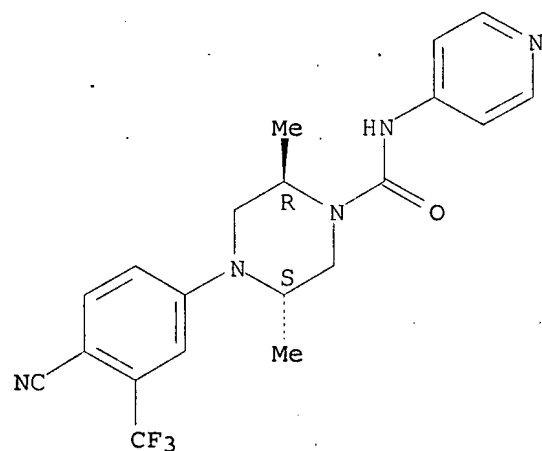
10/513699



● HCl

RN 876460-35-4 CAPLUS
CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-4-pyridinyl-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

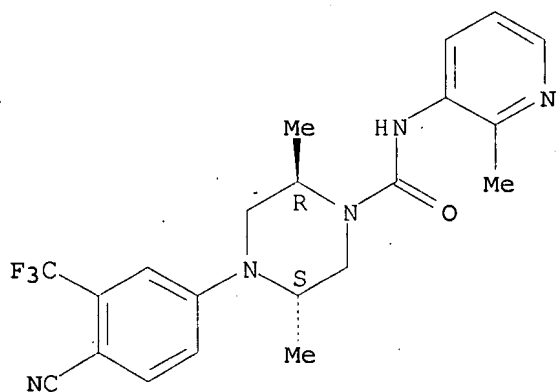


● HCl

RN 876460-36-5 CAPLUS
CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2-methyl-3-pyridinyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

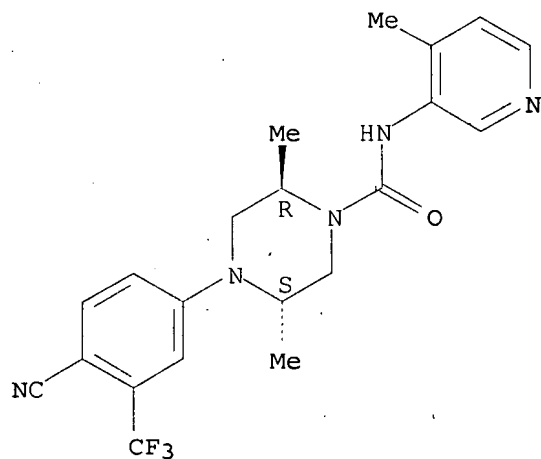
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RN 876460-37-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(4-methyl-3-pyridinyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

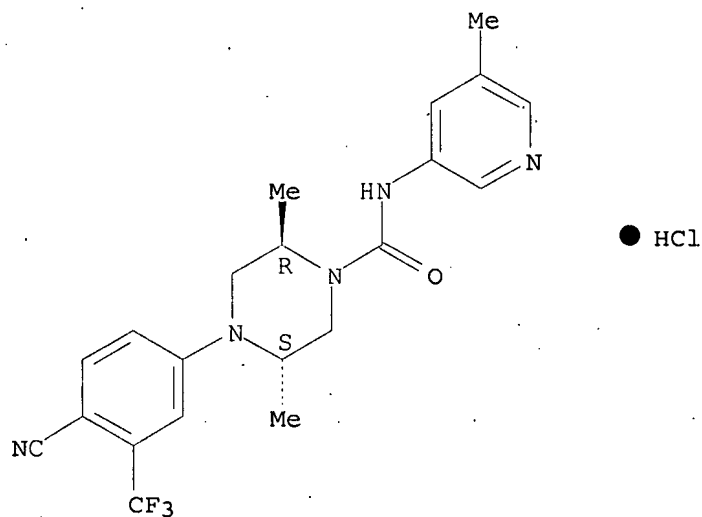


RN 876460-38-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(5-methyl-3-pyridinyl)-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

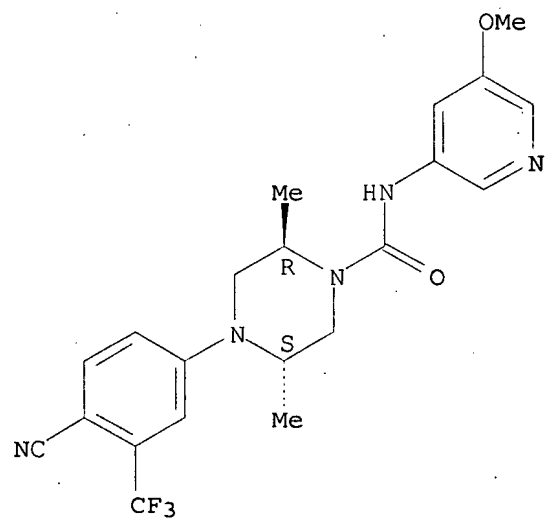
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RN 876460-39-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(5-methoxy-3-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

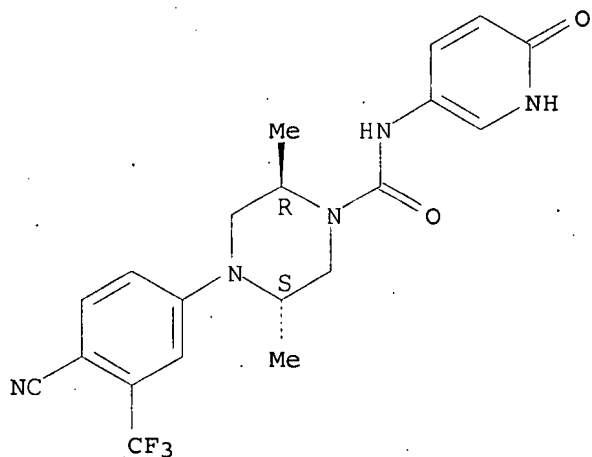


RN 876460-40-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(1,6-dihydro-6-oxo-3-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

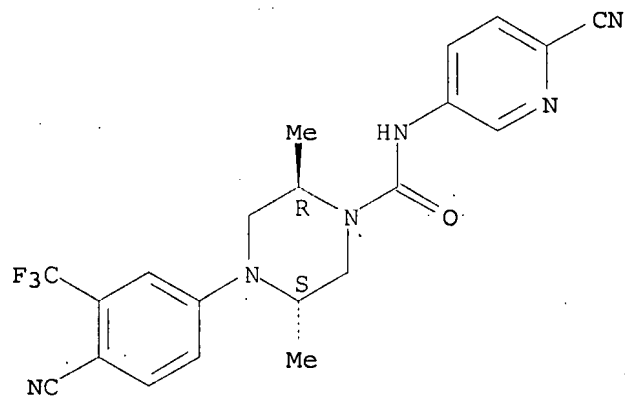
10/513699



RN 876460-41-2 CAPLUS

CN 1-Piperazinecarboxamide, N-(6-cyano-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

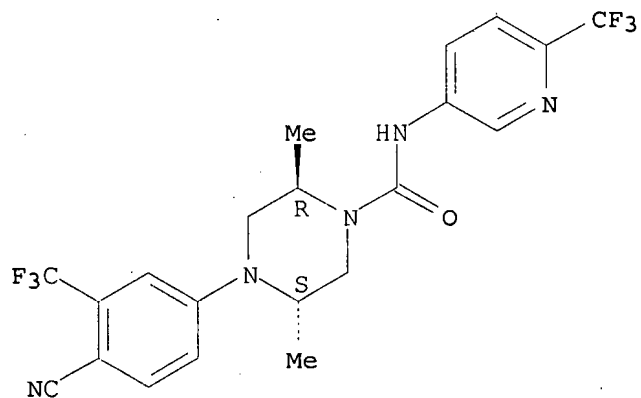


RN 876460-42-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

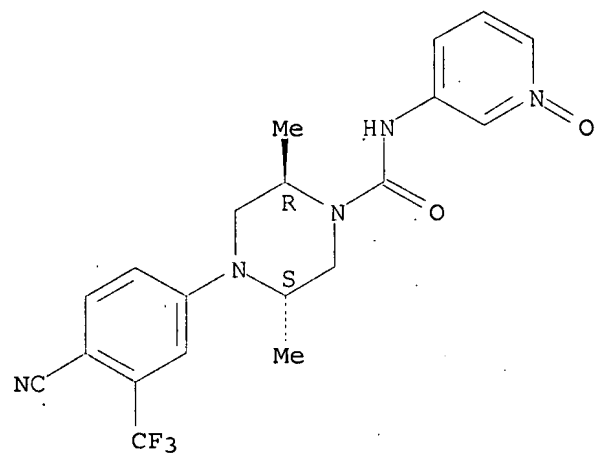
10/513699



RN 876460-43-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(1-oxido-3-pyridinyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

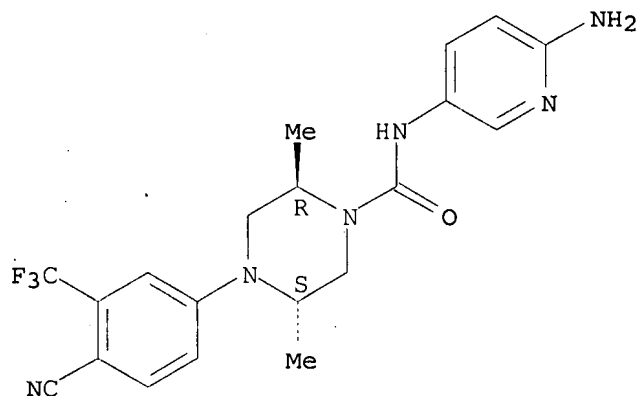


RN 876460-45-6 CAPLUS

CN 1-Piperazinecarboxamide, N-(6-amino-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

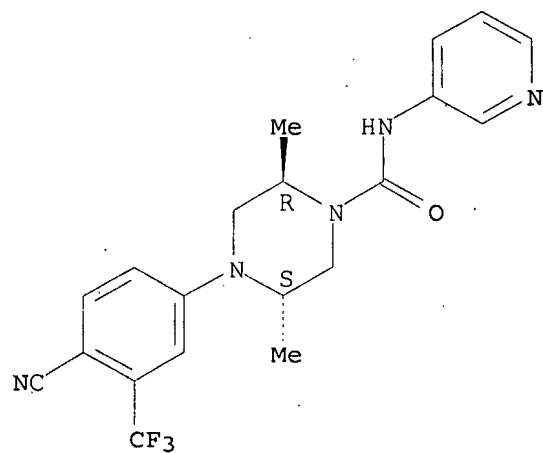
Relative stereochemistry.

10/513699



IT 262294-46-2P 262294-94-0P 876460-44-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and in vitro and in vivo activities of trans-4-aryl-2,5-dimethylpiperazinecarboxamides as human androgen receptor antagonists)
RN 262294-46-2 CAPLUS
CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-3-pyridinyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

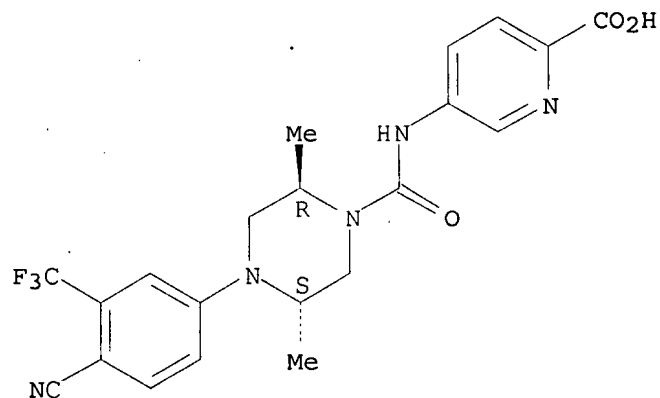
Relative stereochemistry.



RN 262294-94-0 CAPLUS
CN 2-Pyridinecarboxylic acid, 5-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

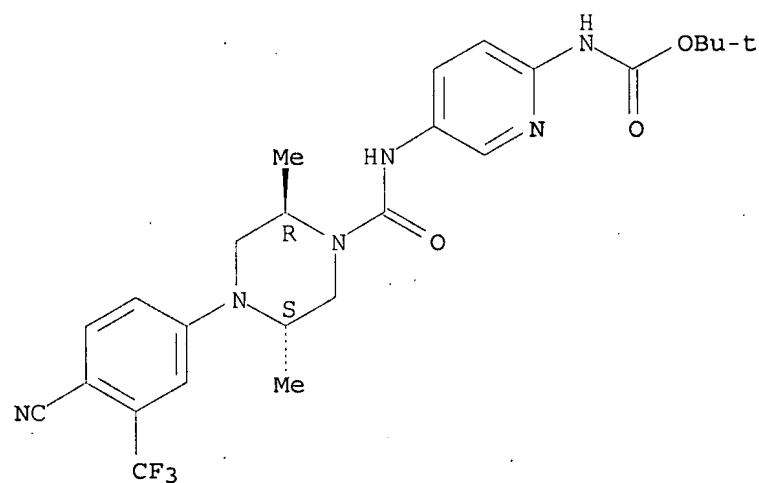
10/513699



RN 876460-44-5 CAPLUS

CN Carbamic acid, [5-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-2-pyridinyl]-, 1,1-dimethylethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 262294-30-4

RL: PAC (Pharmacological activity); BIOL (Biological study)
(preparation and in vitro and in vivo activities of trans-4-aryl-2,5-dimethylpiperazinecarboxamides as human androgen receptor antagonists and comparison of their activities to that of an initial lead compound)

RN 262294-30-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Chemical structure of a substituted piperazine derivative. The piperazine ring is substituted with a 4-(trifluoromethyl)phenyl group at position 1, a methyl group at position 2 (wedge bond), a methyl group at position 3 (dashed bond), and a 2-(2,4-difluorophenyl)carbamoyl group at position 4. The labels R and S are placed near the nitrogen atoms at positions 2 and 3 respectively.

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of a nonracemic aryldimethylpiperazinecarboxamide as a human androgen receptor antagonist, comparison of its activity to that of its enantiomer, and comparison of its activity and pharmacol. to those of bicalutamide)

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

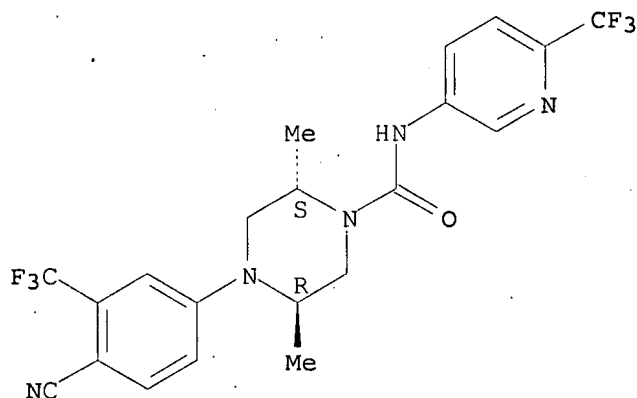
Chemical structure of compound 10: A piperazine ring substituted with a 4-(trifluoromethyl)phenyl group at position 1, a methyl group at position 2 (wedge), a methyl group at position 3 (dash), and a 3-(trifluoromethyl)pyridin-2-ylidene group at position 4.

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of both enantiomers of a aryldimethylpiperazinecarboxamide as human androgen receptor antagonists and comparison of their androgen receptor antagonist activities)

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2S,5R)- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese



REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:446498 CAPLUS

DOCUMENT NUMBER: 143:71003

TITLE: N-arylpiperazine-1-carboxamide derivatives: A novel series of orally active nonsteroidal androgen receptor antagonists

AUTHOR(S): Kinoyama, Isao; Taniguchi, Nobuaki; Kawaminami, Eiji; Nozawa, Eisuke; Koutoku, Hiroshi; Furutani, Takashi; Kudoh, Masafumi; Okada, Minoru

CORPORATE SOURCE: Institute for Drug Discovery Research, Yamanouchi Pharmaceutical Co., Ltd., Ibaraki, 305-8585, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (2005), 53(4), 402-409

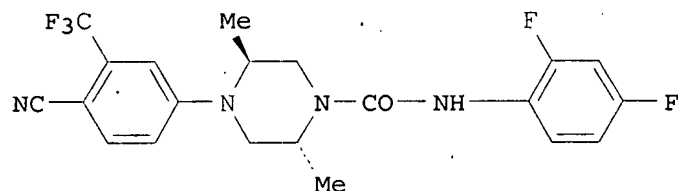
CODEN: CPBTAL; ISSN: 0009-2363

PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I

AB A novel series of N-arylpiperazine-1-carboxamide derivs. was synthesized and their androgen receptor (AR) antagonist activities and in vivo antiandrogenic properties were evaluated. Reporter assays indicated that trans-2,5-dimethylpiperazine derivs. are potent AR antagonists, and in this series trans-N-4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2,4-difluorophenyl)-2,5-dimethylpiperazine-1-carboxamide (I, YM-175735) exhibited the most potent antiandrogenic activity. Compared to bicalutamide, YM-175735 is an approx. 4-fold stronger AR antagonist and has slightly increased antiandrogenic activity, suggesting that YM-175735 may be useful in the treatment of prostate cancer.

10/513699

IT 262293-89-0P 262293-93-6P 262294-23-5P
262294-29-1P 262294-30-4P 262294-31-5P
854765-33-6P

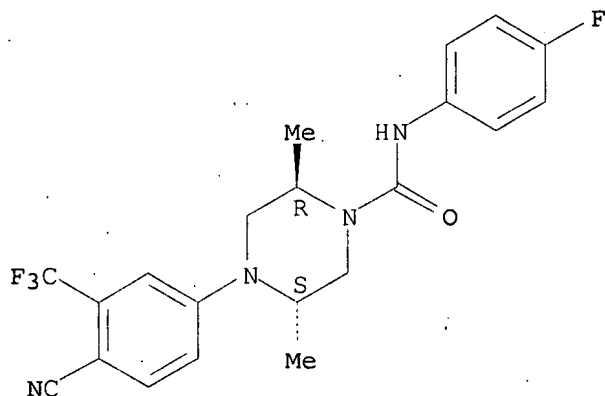
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(N-arylpiperazine-1-carboxamide derivs., a series of orally active nonsteroidal androgen receptor antagonists)

RN 262293-89-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(4-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

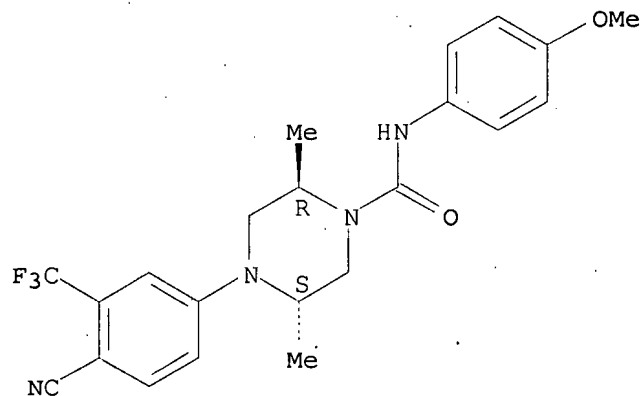
Relative stereochemistry.



RN 262293-93-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(4-methoxyphenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

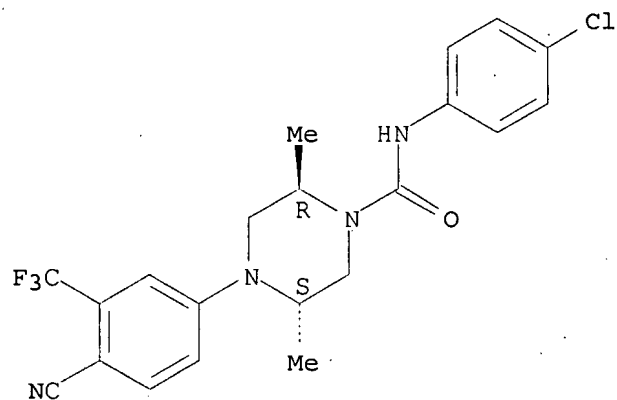


RN 262294-23-5 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-chlorophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

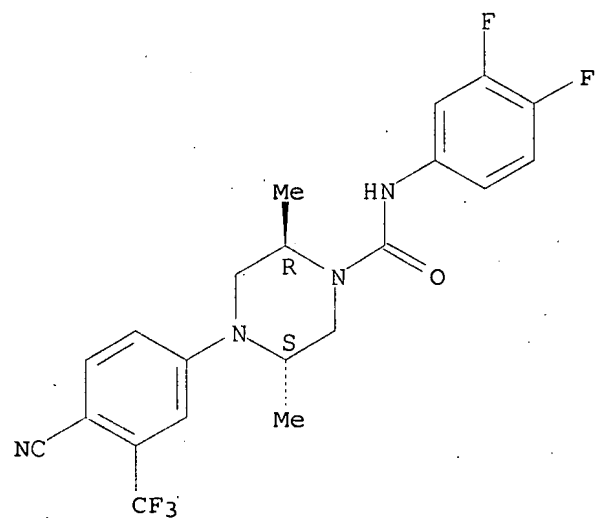
10/513699



RN 262294-29-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(3,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

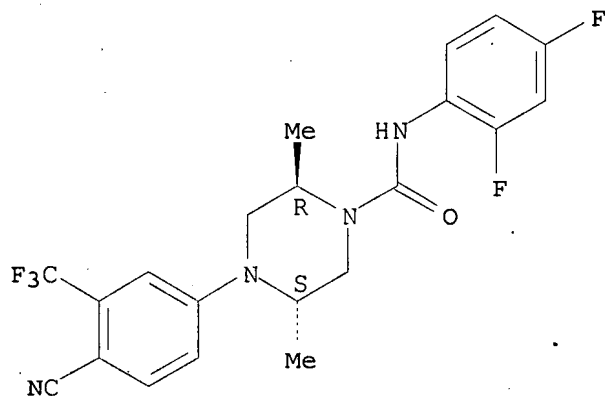


RN 262294-30-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

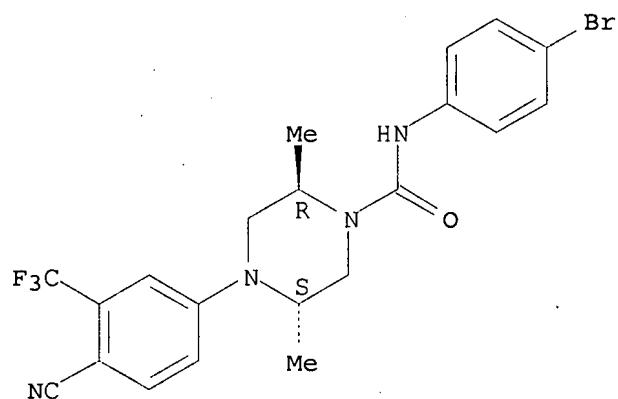
10/513699



RN 262294-31-5 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-bromophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

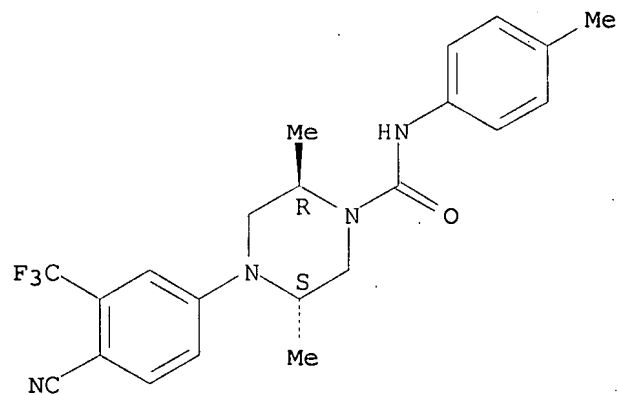
Relative stereochemistry.



RN 854765-33-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(4-methylphenyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



10/513699

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:60487 CAPLUS

DOCUMENT NUMBER: 140:111431

TITLE: Preparation of (2R,5S)-dimethylpiperazine derivatives for treatment of prostate cancer

INVENTOR(S): Taniguchi, Nobuaki; Imamura, Masakazu; Hayakawa, Masahiko; Kawaguchi, Kenichi; Kimura, Takenori; Kinoyama, Isao; Kaizawa, Hiroyuki; Okada, Minoru; Furutani, Takashi

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

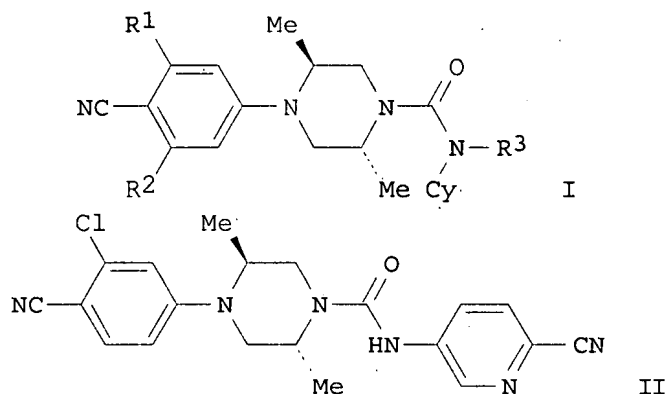
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004007471	A1	20040122	WO 2003-JP8860	20030711
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2492138	A1	20040122	CA 2003-2492138	20030711
AU 2003248052	A1	20040202	AU 2003-248052	20030711
EP 1557411	A1	20050727	EP 2003-764179	20030711
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
US 2005261303	A1	20051124	US 2005-521119	20050112
PRIORITY APPLN. INFO.:			JP 2002-203690	A 20020712
			WO 2003-JP8860	W 20030711

GI

Instant Case



AB The title novel N-phenyl-(2R,5S)-dimethylpiperazine derivs. with general formula of I [wherein R1 = Cl, F, Br, CN, Me, CF3, or alkoxy; R2 = H, F, or MeO; R3 = H or alkyl; Cy = (un)substituted Ph, pyridyl, pyrimidinyl, imidazopyridinyl, benzopyrazinyl, quinoxalinyl, quinolinyl, benzothiazolyl, isoquinolinyl, benzothiadiazolyl, indolidinyl, or tetrahydrobenzofuranyl; with exclusions] or salts thereof are prepared For example, the compound II was prepared in a multi-step synthesis. II showed inhibitory activity with IC50 of 40 nM against transcription activation in rat. I are useful for the treatment of prostate cancer, prostate gland enlargement, etc.

IT 648422-62-2P 648422-63-3P 648422-64-4P
 648422-65-5P 648422-66-6P 648422-67-7P
 648422-68-8P 648422-70-2P 648422-71-3P
 648422-72-4P 648422-73-5P 648422-74-6P
 648422-75-7P 648422-77-9P 648422-79-1P
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 648423-49-8P 648423-50-1P 648423-51-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of dimethylpiperazine derivs. for treatment of

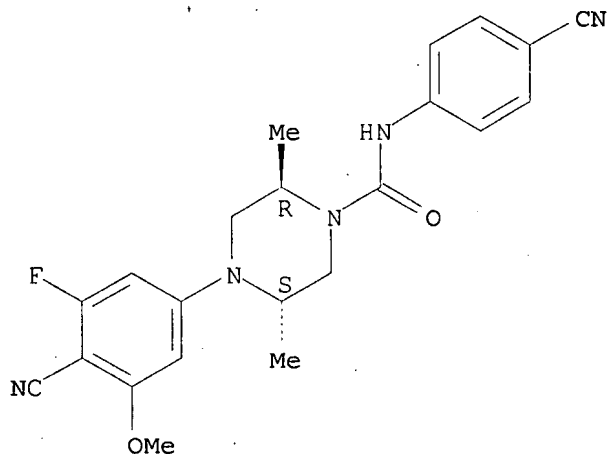
10/513699

prostate cancer)

RN 648422-62-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluoro-5-methoxyphenyl)-N-(4-cyanophenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

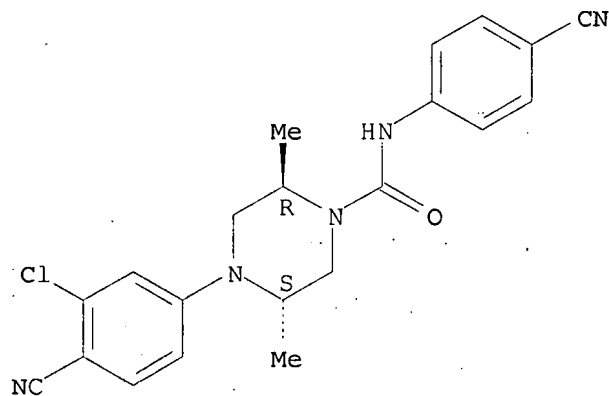
Absolute stereochemistry.



RN 648422-63-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-N-(4-cyanophenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

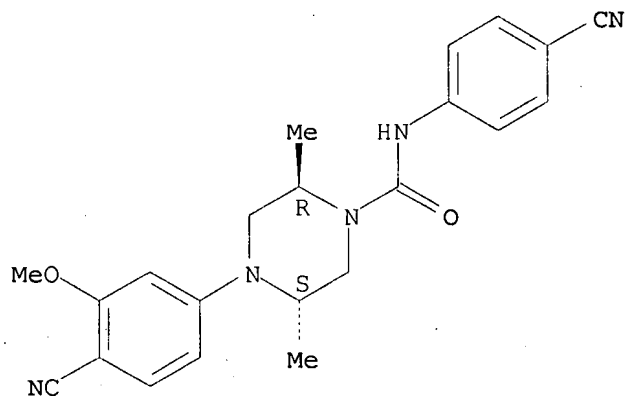


RN 648422-64-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(4-cyanophenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

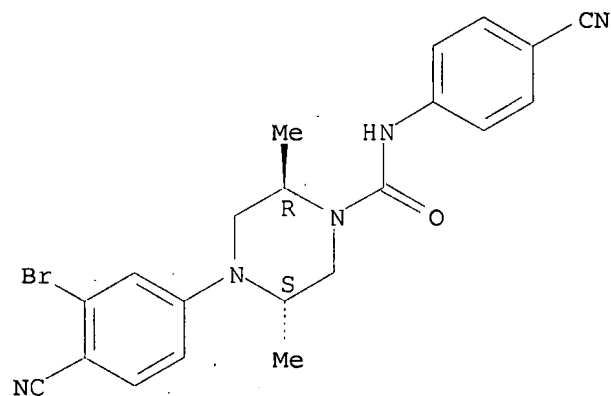
10/513699



RN 648422-65-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-bromo-4-cyanophenyl)-N-(4-cyanophenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

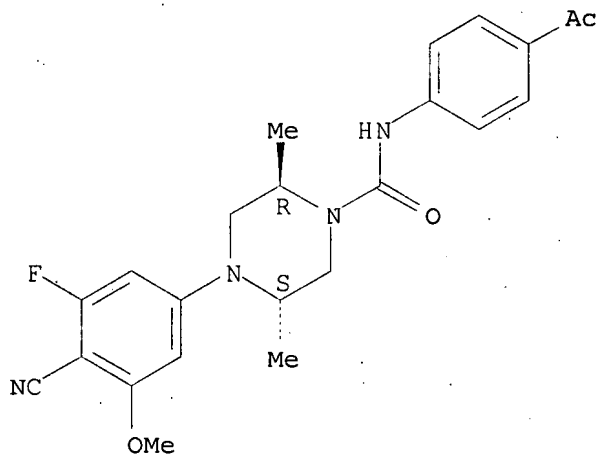


RN 648422-66-6 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-acetylphenyl)-4-(4-cyano-3-fluoro-5-methoxyphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

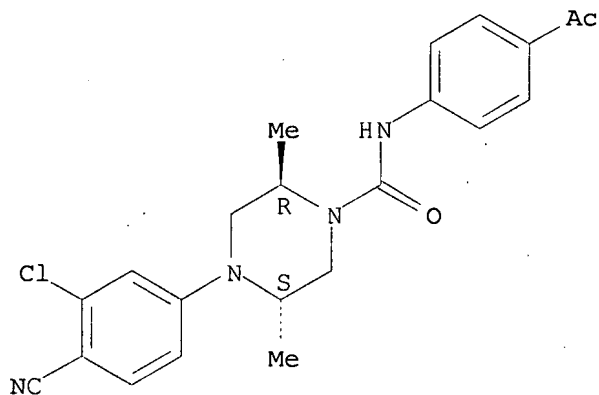
10/513699



RN 648422-67-7 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-acetylphenyl)-4-(3-chloro-4-cyanophenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

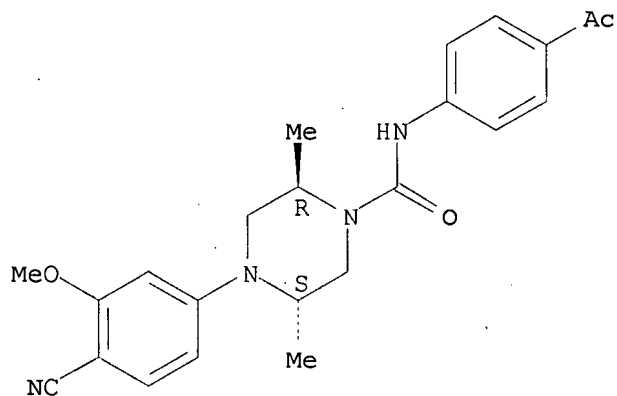


RN 648422-68-8 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-acetylphenyl)-4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

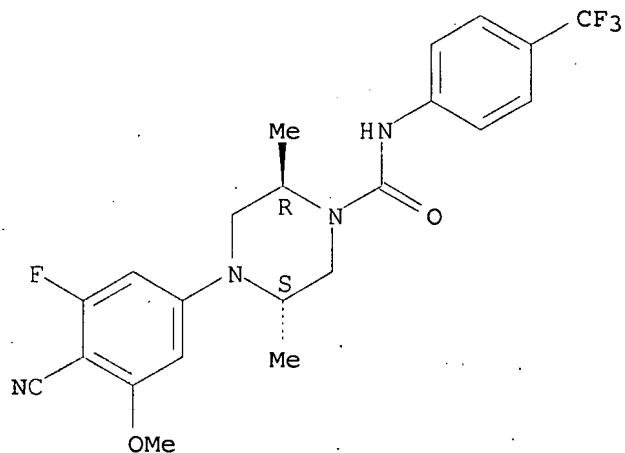
10/513699



RN 648422-70-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluoro-5-methoxyphenyl)-2,5-dimethyl-N-[4-(trifluoromethyl)phenyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

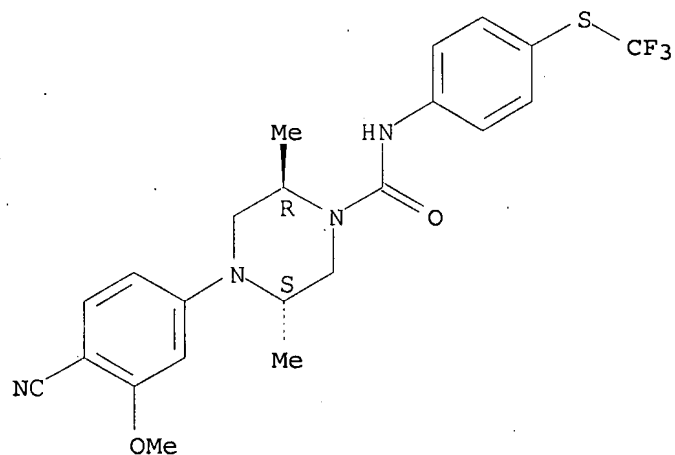


RN 648422-71-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-N-[4-[(trifluoromethyl)thio]phenyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

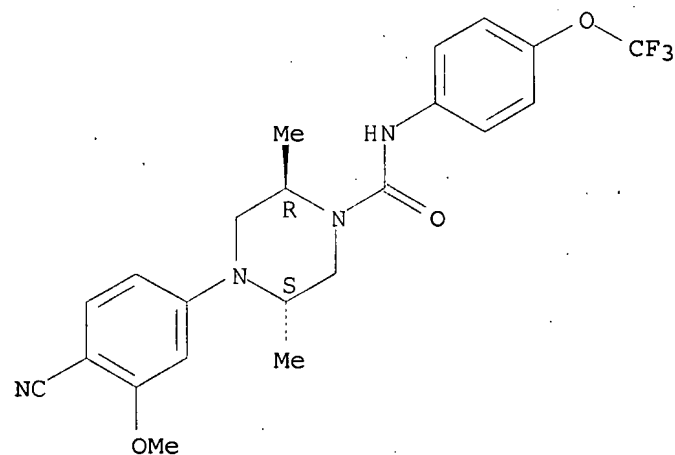
10/513699



RN 648422-72-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-N-[4-(trifluoromethoxy)phenyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

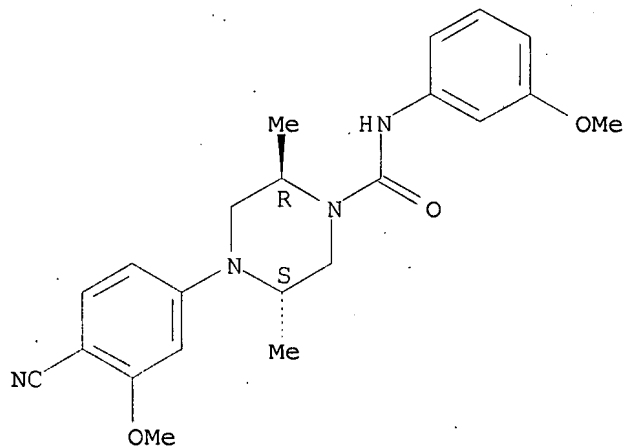


RN 648422-73-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(3-methoxyphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

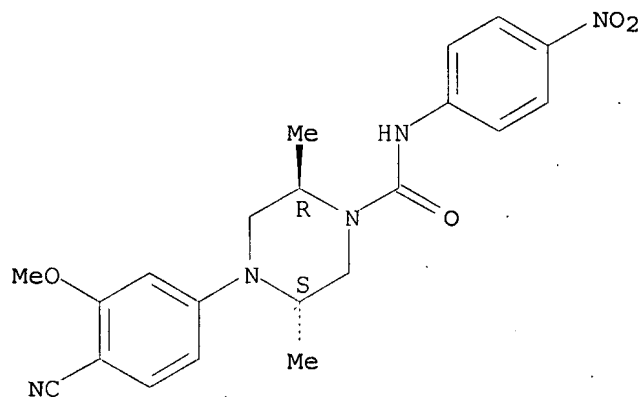
10/513699



RN 648422-74-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-N-(4-nitrophenyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

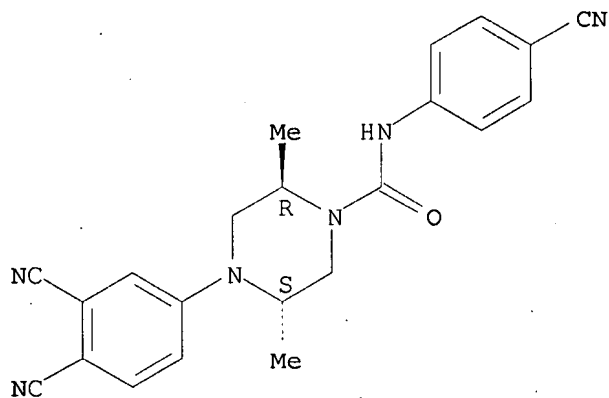


RN 648422-75-7 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-cyanophenyl)-4-(3,4-dicyanophenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

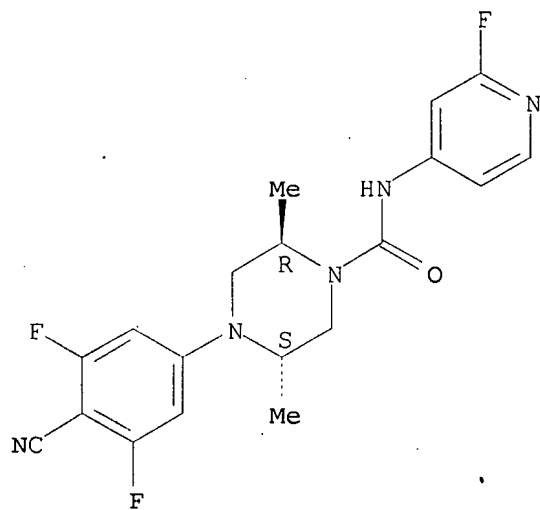
10/513699



RN 648422-77-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3,5-difluorophenyl)-N-(2-fluoro-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

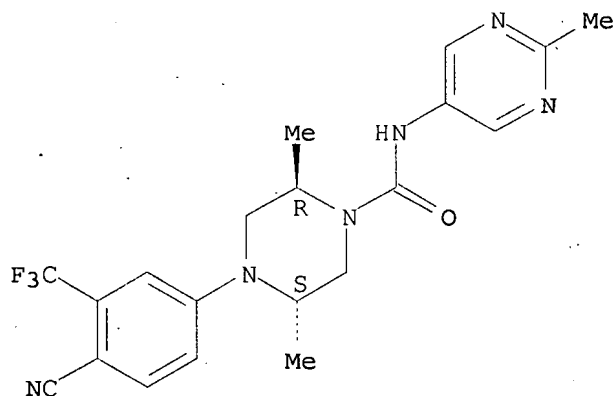


RN 648422-79-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2-methyl-5-pyrimidinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

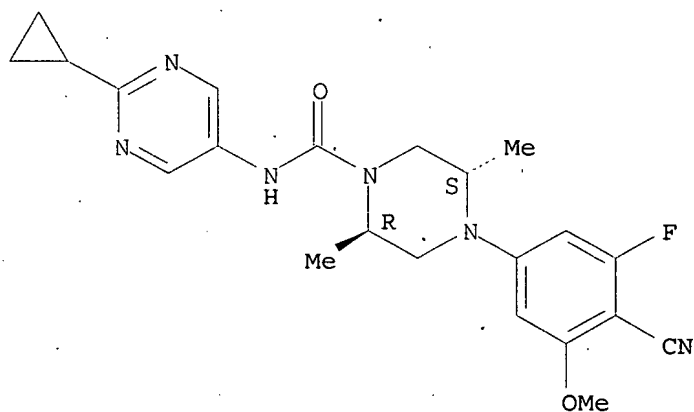
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RN 648422-80-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluoro-5-methoxyphenyl)-N-(2-cyclopropyl-5-pyrimidinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

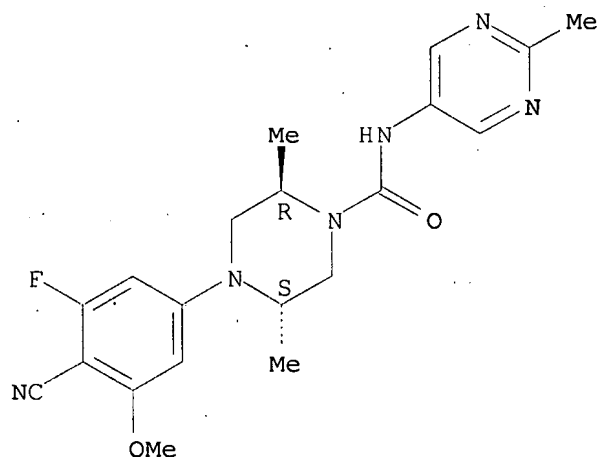


RN 648422-81-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluoro-5-methoxyphenyl)-2,5-dimethyl-N-(2-methyl-5-pyrimidinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

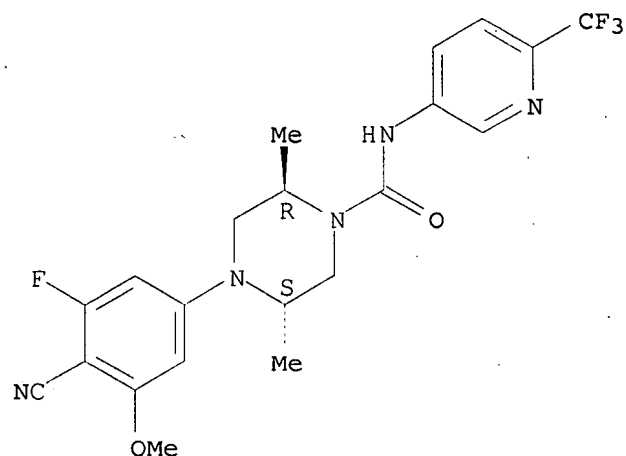
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RN 648422-82-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluoro-5-methoxyphenyl)-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

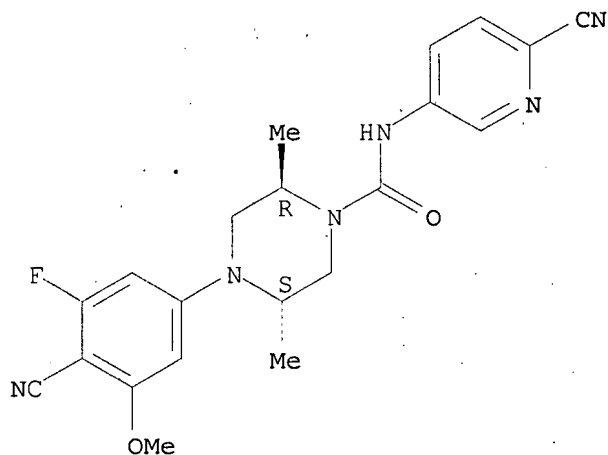


RN 648422-83-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluoro-5-methoxyphenyl)-N-(6-cyano-3-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

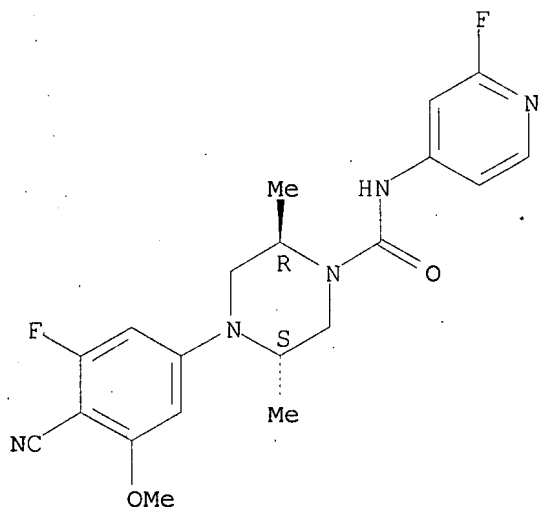
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RN 648422-84-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluoro-5-methoxyphenyl)-N-(2-fluoro-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

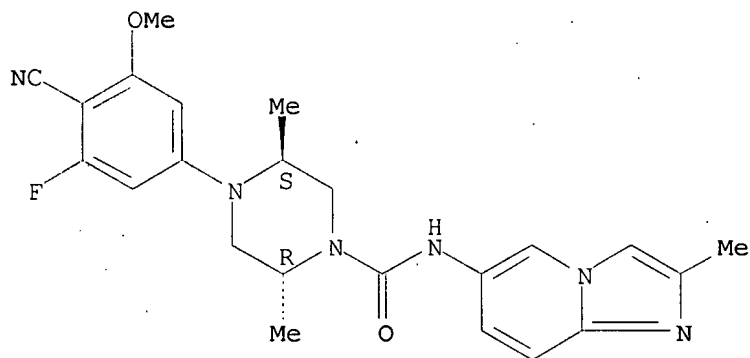


RN 648422-85-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluoro-5-methoxyphenyl)-2,5-dimethyl-N-(2-methylimidazo[1,2-a]pyridin-6-yl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

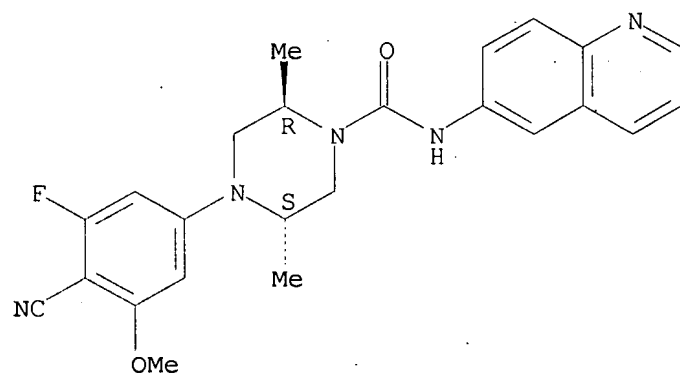
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RN 648422-86-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluoro-5-methoxyphenyl)-2,5-dimethyl-N-6-quinolinyl-, monohydrochloride, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



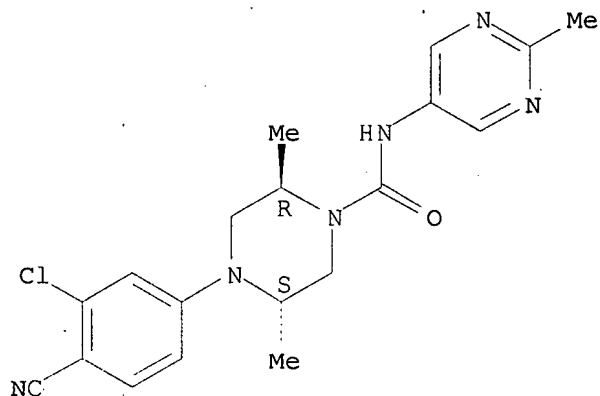
● HCl

RN 648422-87-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-2,5-dimethyl-N-(2-methyl-5-pyrimidinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

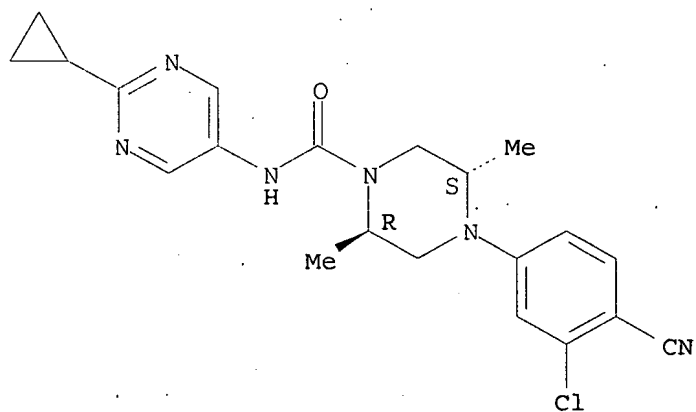
10/513699



RN 648422-88-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-N-(2-cyclopropyl-5-pyrimidinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

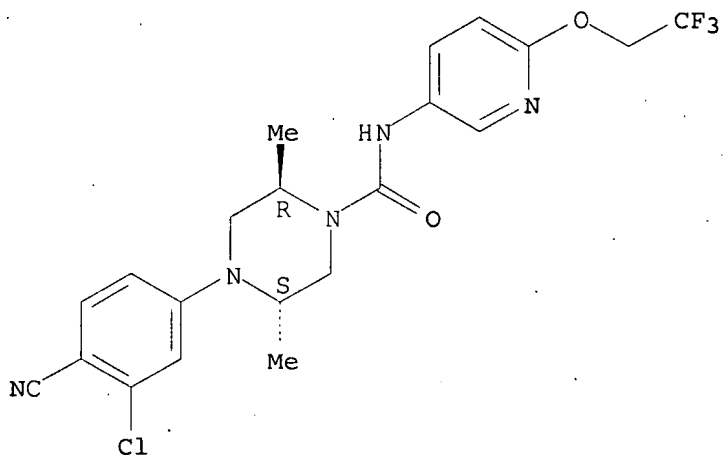


RN 648422-89-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-2,5-dimethyl-N-[6-(2,2,2-trifluoroethoxy)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

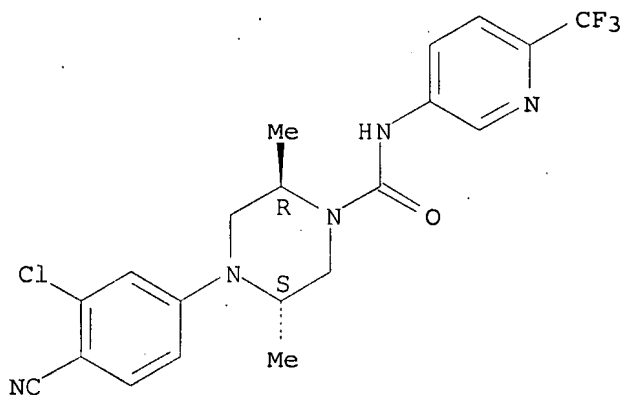
10/513699



RN 648422-90-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

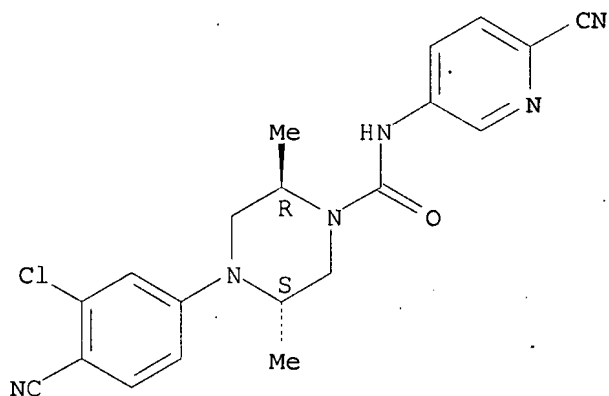


RN 648422-91-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-N-(6-cyano-3-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

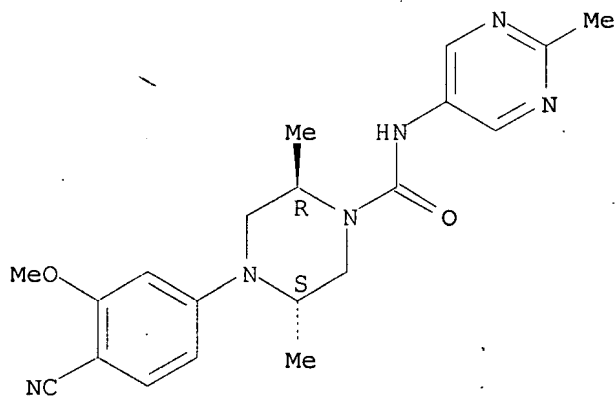
10/513699



RN 648422-92-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-N-(2-methyl-5-pyrimidinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

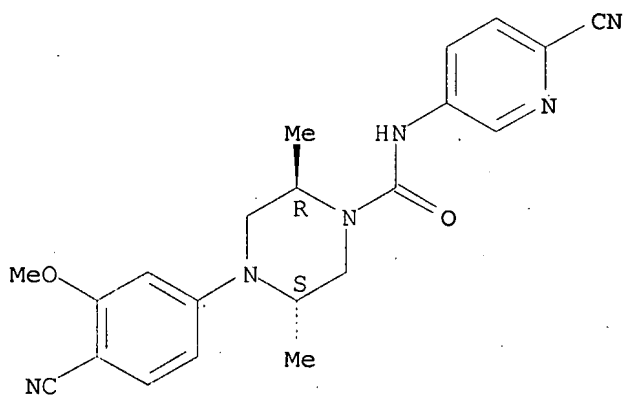
Absolute stereochemistry.



RN 648422-93-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(6-cyano-3-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



<12/04/2007>

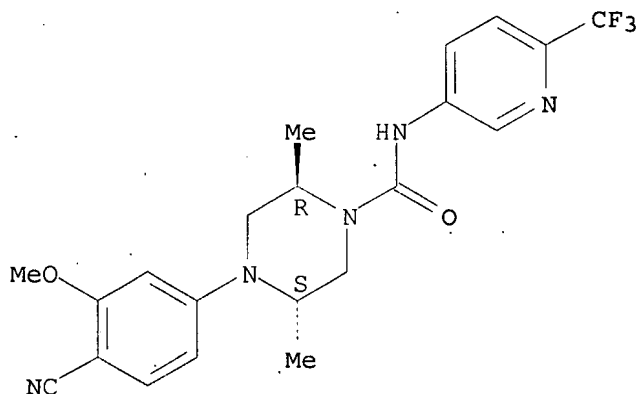
Erich Leese

10/513699

RN 648422-94-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

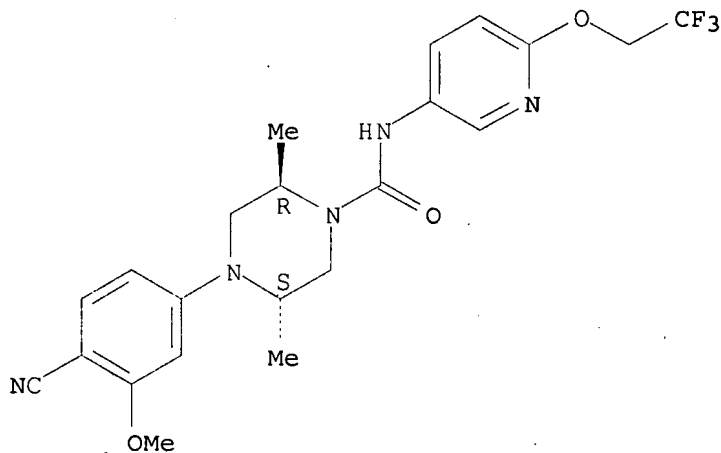
Absolute stereochemistry.



RN 648422-95-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-N-[6-(2,2,2-trifluoroethoxy)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

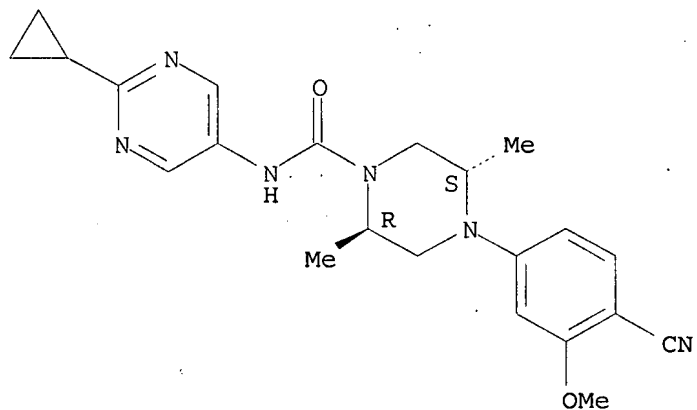


RN 648422-96-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(2-cyclopropyl-5-pyrimidinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

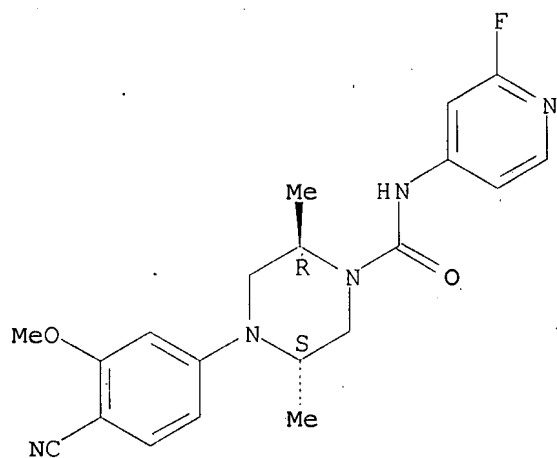
10/513699



RN 648422-97-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(2-fluoro-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

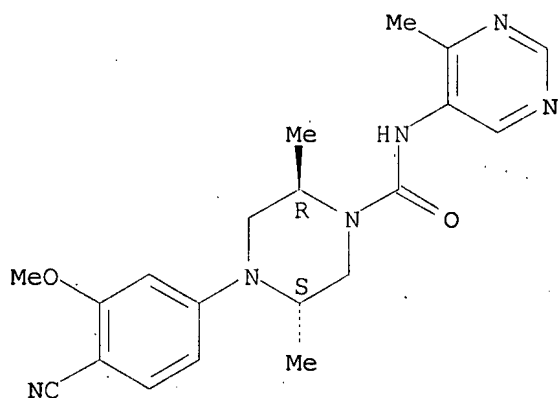


RN 648422-98-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-N-(4-methyl-5-pyrimidinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

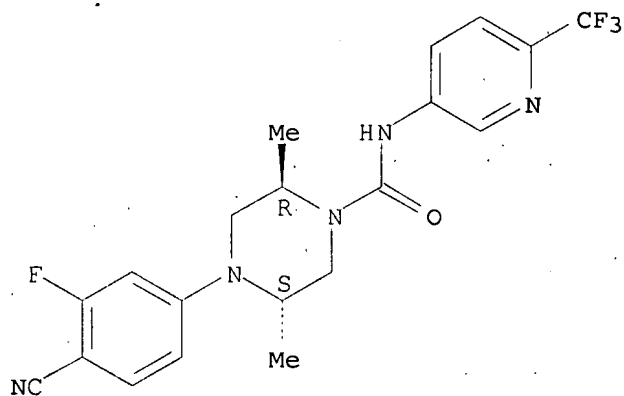
10/513699



RN 648422-99-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluorophenyl)-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

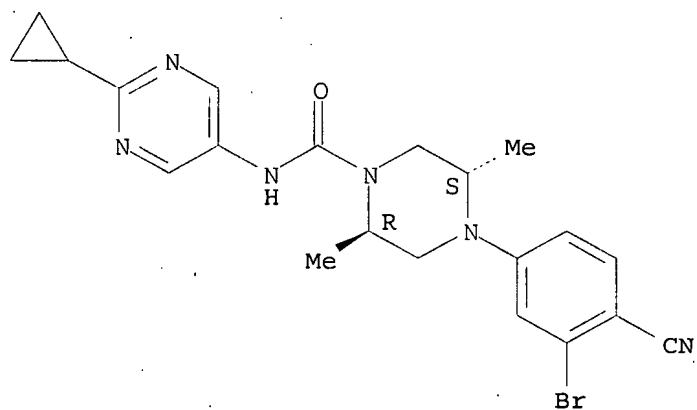
Absolute stereochemistry.



RN 648423-00-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-bromo-4-cyanophenyl)-N-(2-cyclopropyl-5-pyrimidinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

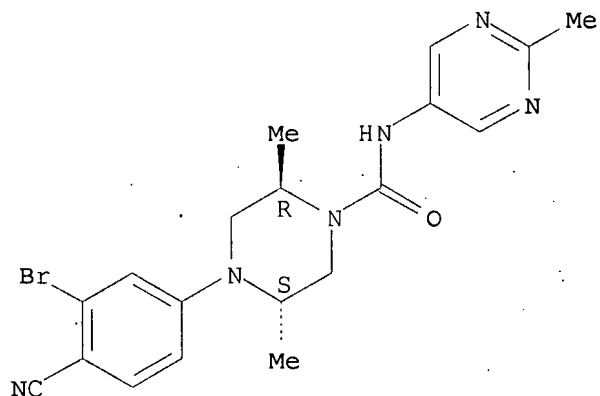


10/513699

RN 648423-01-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-bromo-4-cyanophenyl)-2,5-dimethyl-N-(2-methyl-5-pyrimidinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

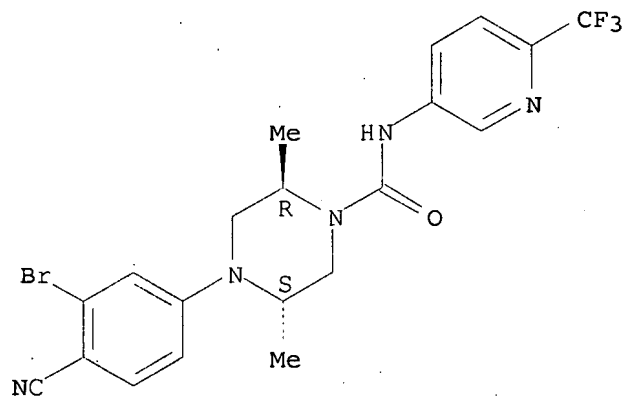
Absolute stereochemistry.



RN 648423-02-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-bromo-4-cyanophenyl)-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

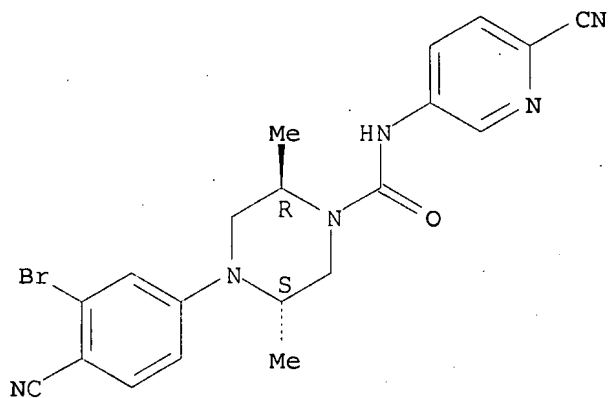


RN 648423-03-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-bromo-4-cyanophenyl)-N-(6-cyano-3-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

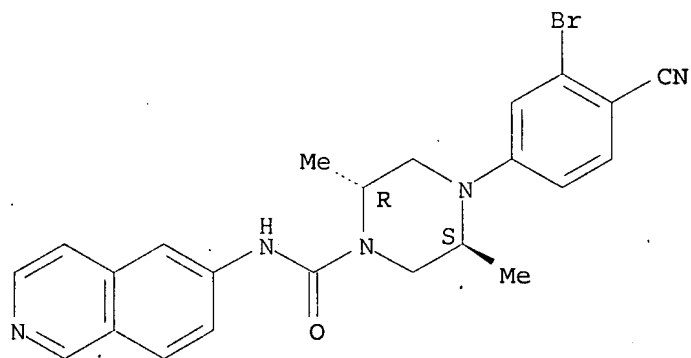
10/513699



RN 648423-05-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-bromo-4-cyanophenyl)-N-6-isoquinolinylnitrile-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

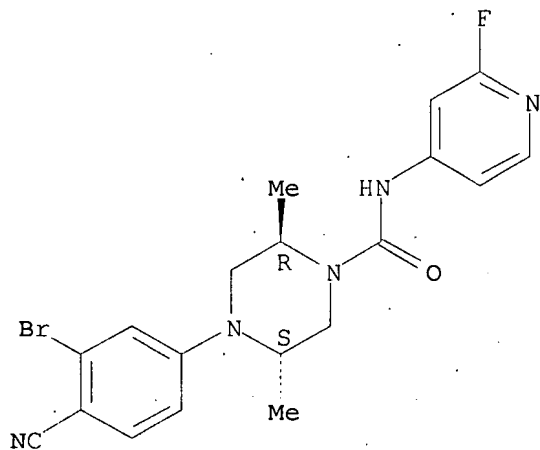
Absolute stereochemistry.



RN 648423-06-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-bromo-4-cyanophenyl)-N-(2-fluoro-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



<12/04/2007>

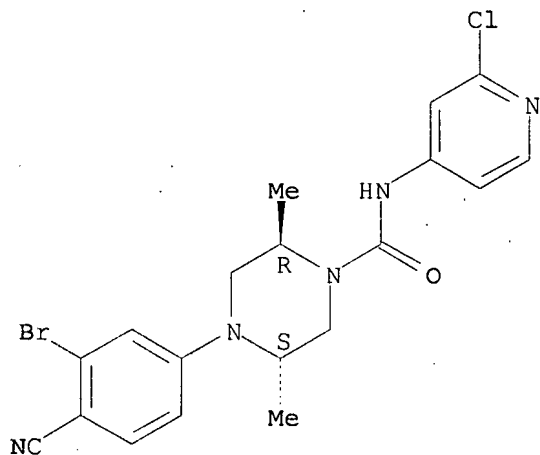
Erich Leese

10/513699

RN 648423-08-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-bromo-4-cyanophenyl)-N-(2-chloro-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

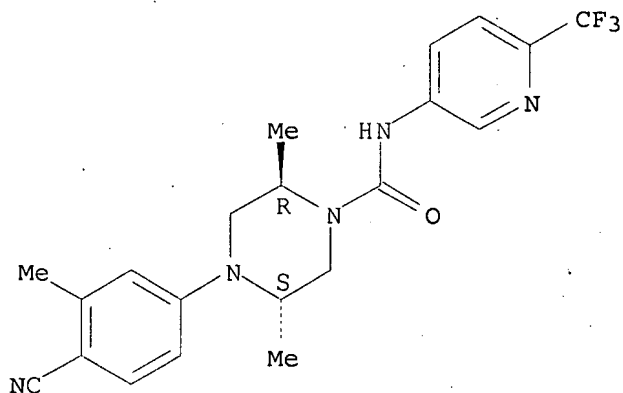
Absolute stereochemistry.



RN 648423-10-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methylphenyl)-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

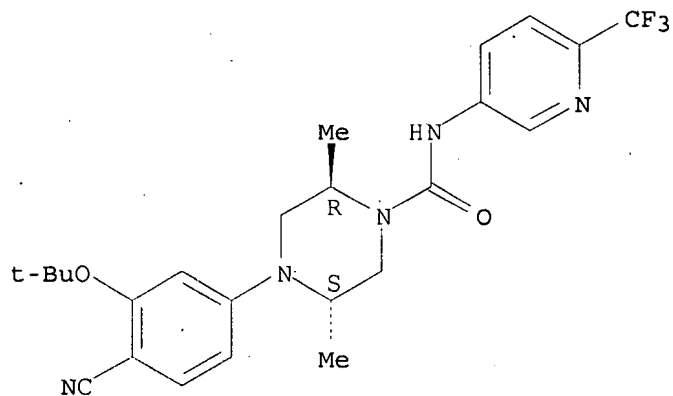


RN 648423-11-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(1,1-dimethylethoxy)phenyl]-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

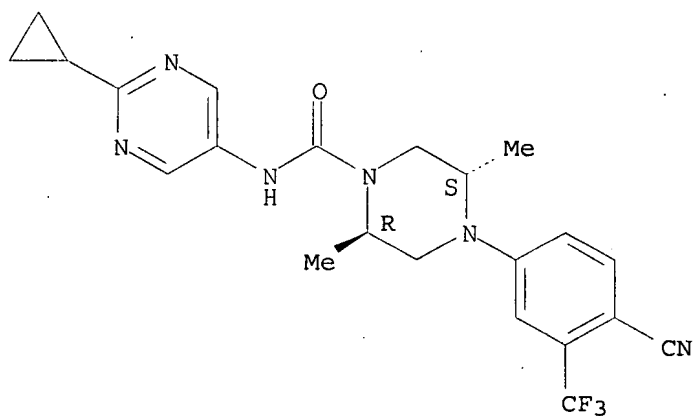
10/513699



RN 648423-12-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-cyclopropyl-5-pyrimidinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

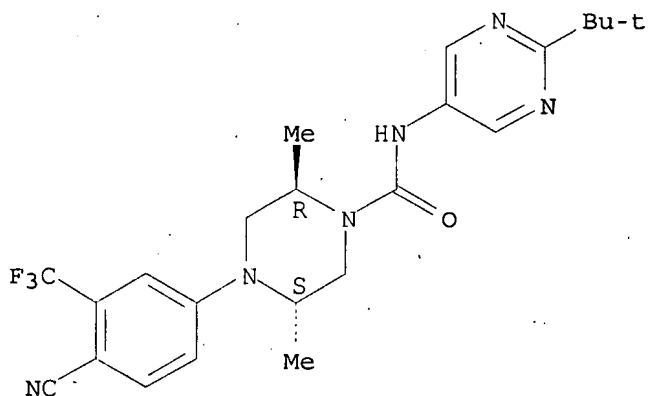


RN 648423-13-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-[2-(1,1-dimethylethyl)-5-pyrimidinyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

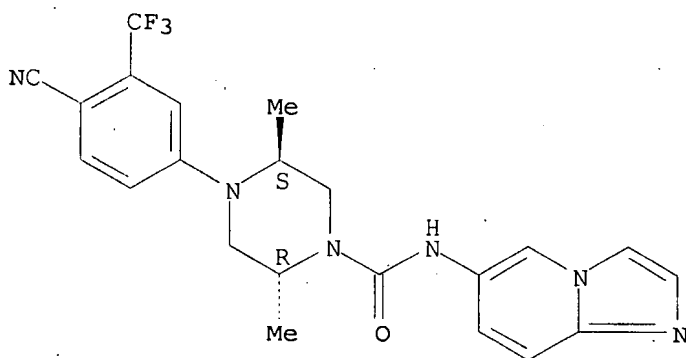
10/513699



RN 648423-14-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-imidazo[1,2-a]pyridin-6-yl-2,5-dimethyl-, monohydrochloride, (2R,5S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



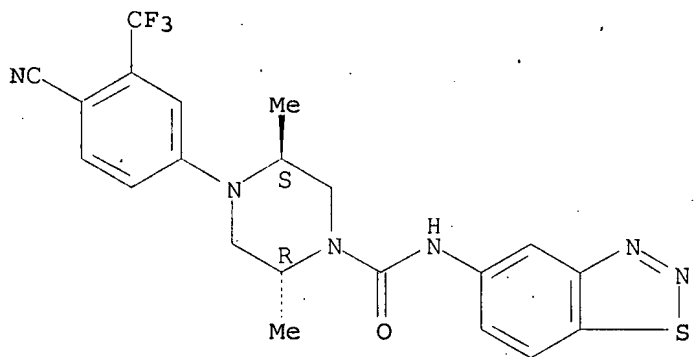
● HCl

RN 648423-15-8 CAPLUS

CN 1-Piperazinecarboxamide, N-1,2,3-benzothiadiazol-5-yl-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

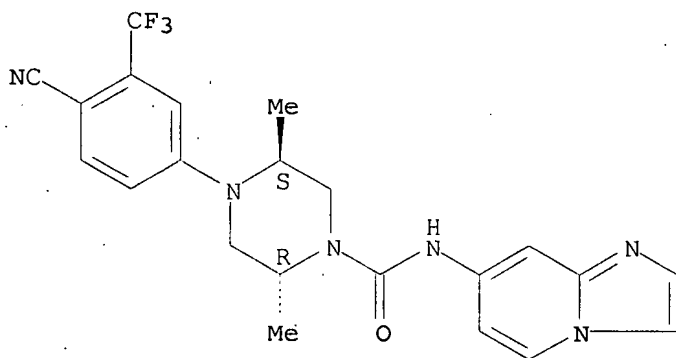
10/513699



RN 648423-16-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-imidazo[1,2-a]pyridin-7-yl-2,5-dimethyl-, monohydrochloride, (2R,5S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



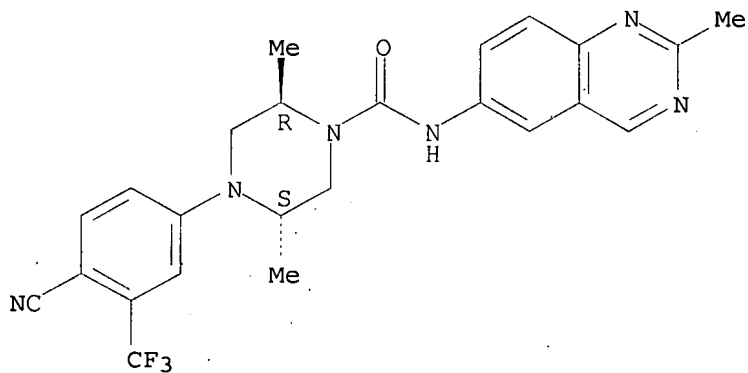
● HCl

RN 648423-17-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2-methyl-6-quinazolinyl)-, (2R,5S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

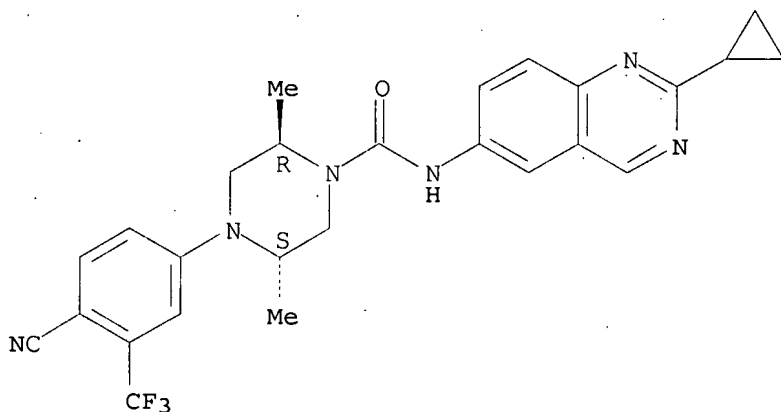
10/513699



RN 648423-18-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-cyclopropyl-6-quinazolinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

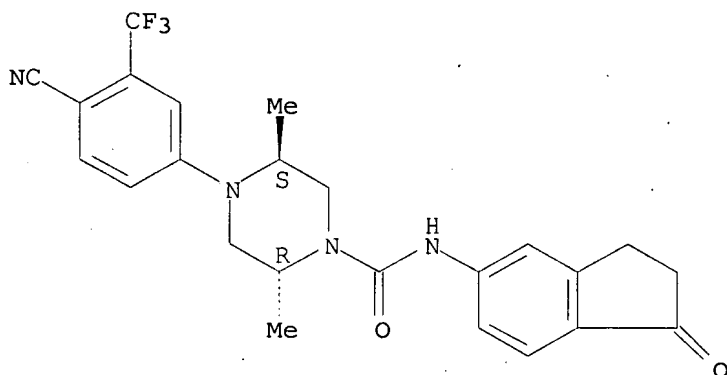
Absolute stereochemistry.



RN 648423-19-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2,3-dihydro-1-oxo-1H-inden-5-yl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

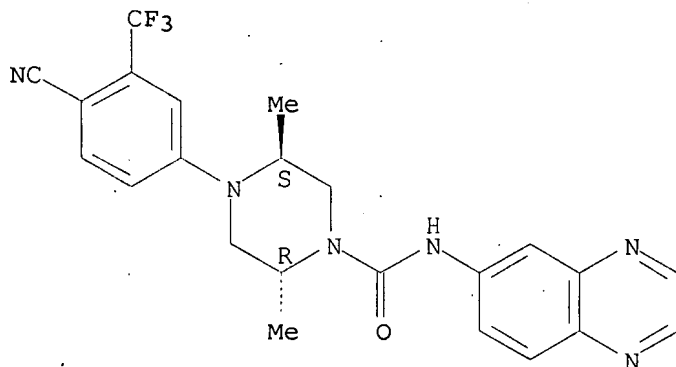


10/513699

RN 648423-20-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-6-quinoxaliny-, (2R,5S)- (9CI) (CA INDEX NAME)

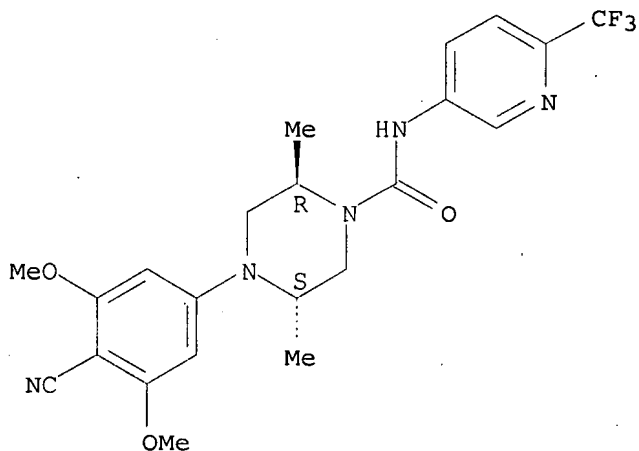
Absolute stereochemistry.



RN 648423-21-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3,5-dimethoxyphenyl)-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

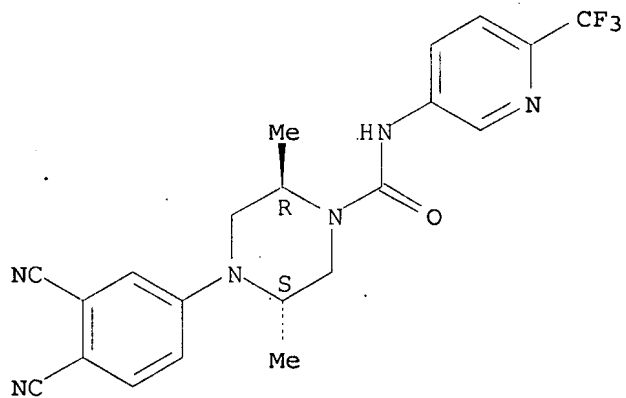


RN 648423-22-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3,4-dicyanophenyl)-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

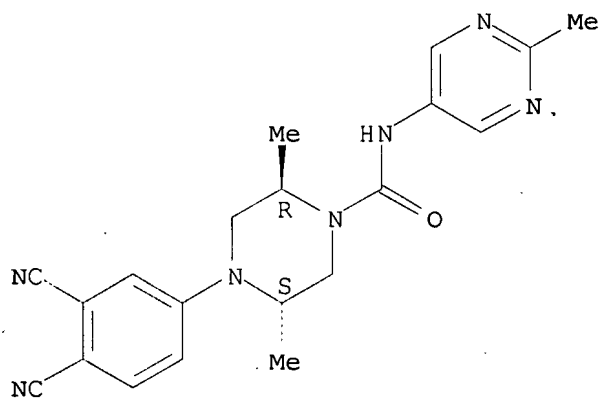
10/513699



RN 648423-23-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3,4-dicyanophenyl)-2,5-dimethyl-N-(2-methyl-5-pyrimidinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

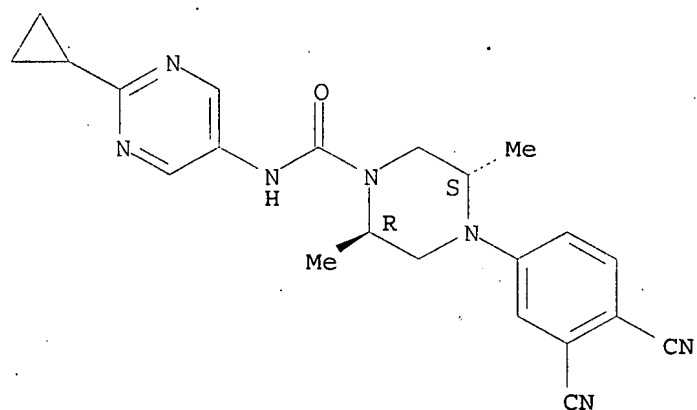
Absolute stereochemistry.



RN 648423-24-9 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-cyclopropyl-5-pyrimidinyl)-4-(3,4-dicyanophenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



<12/04/2007>

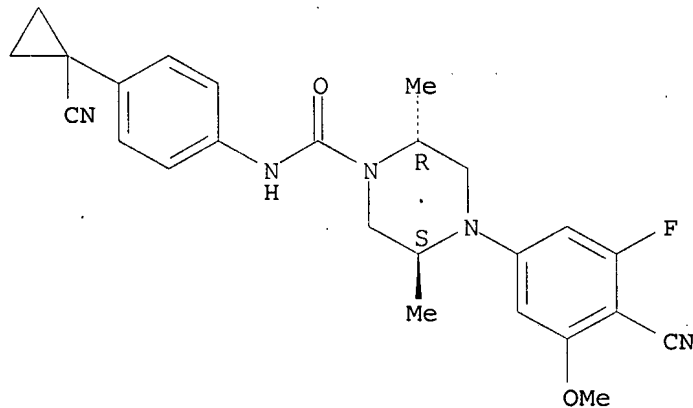
Erich Leese

10/513699

RN 648423-25-0 CAPLUS

CN 1-Piperazinecarboxamide, N-[4-(1-cyanocyclopropyl)phenyl]-4-(4-cyano-3-fluoro-5-methoxyphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

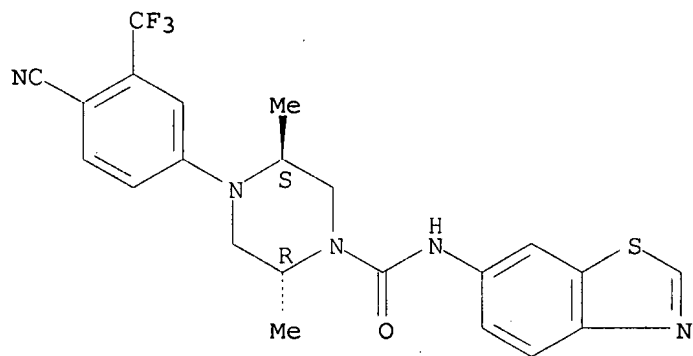
Absolute stereochemistry.



RN 648423-26-1 CAPLUS

CN 1-Piperazinecarboxamide, N-6-benzothiazolyl-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

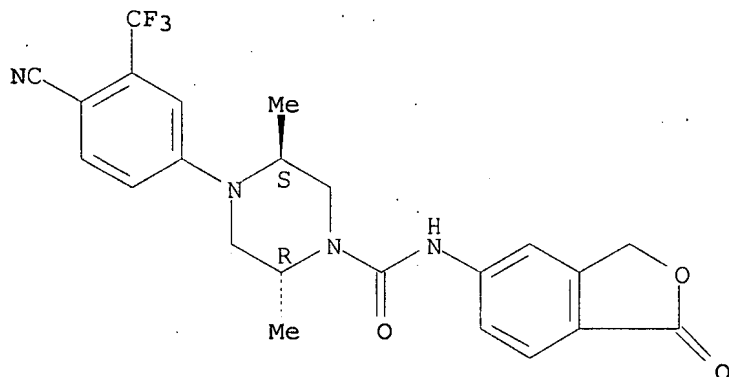


RN 648423-27-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(1,3-dihydro-1-oxo-5-isobenzofuranyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

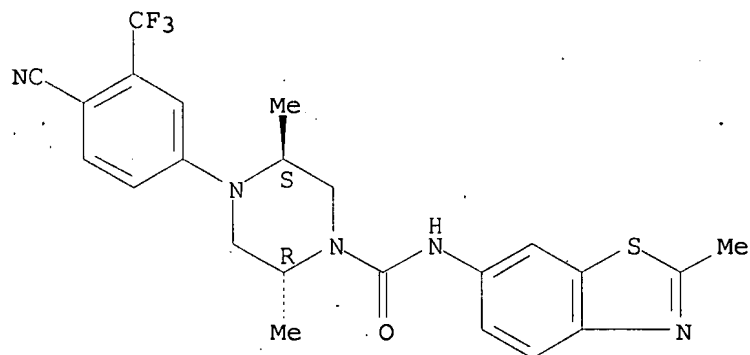
10/513699



RN 648423-28-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2-methyl-6-benzothiazolyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

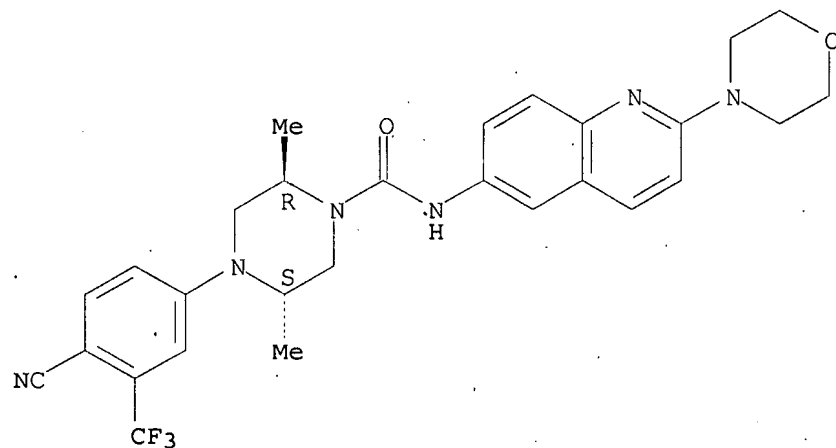
Absolute stereochemistry.



RN 648423-29-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(4-morpholinyl)-6-quinolinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

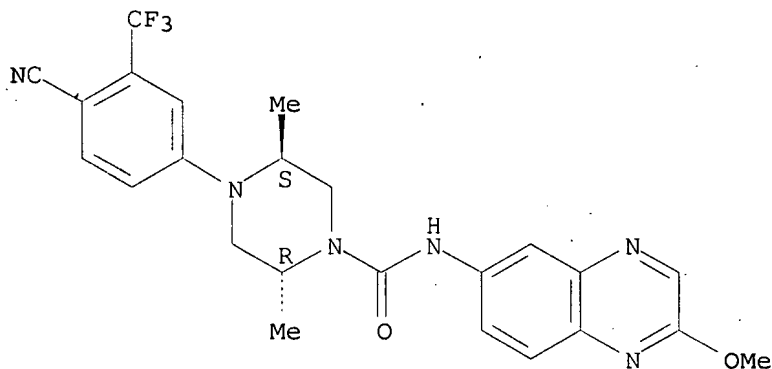


10/513699

RN 648423-30-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-methoxy-6-quinoxaliny)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

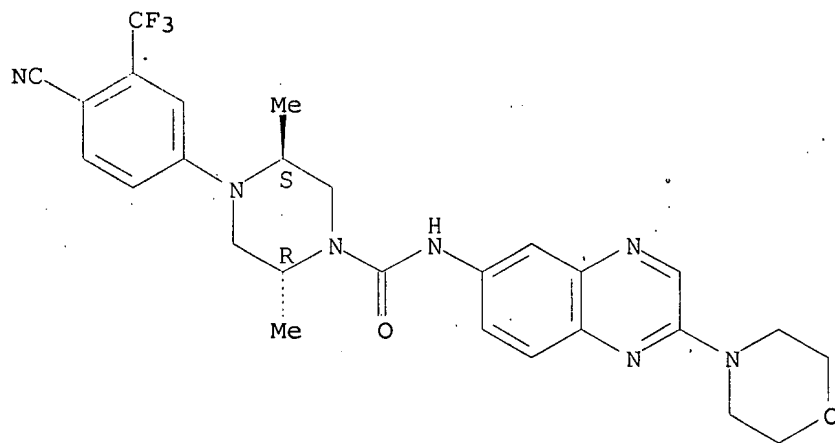
Absolute stereochemistry.



RN 648423-31-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(4-morpholinyl)-6-quinoxaliny]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

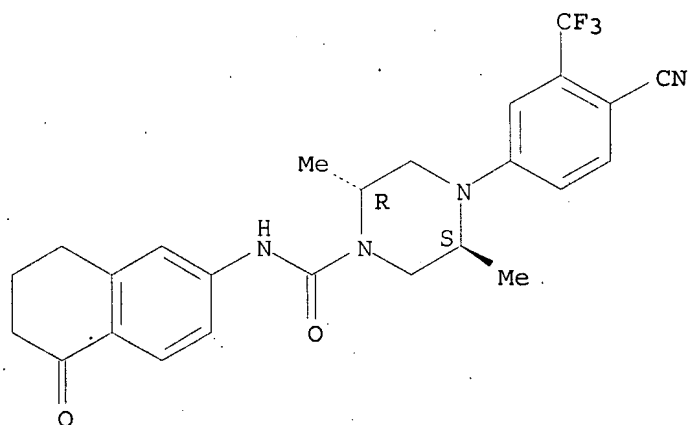


RN 648423-32-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(5,6,7,8-tetrahydro-5-oxo-2-naphthalenyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

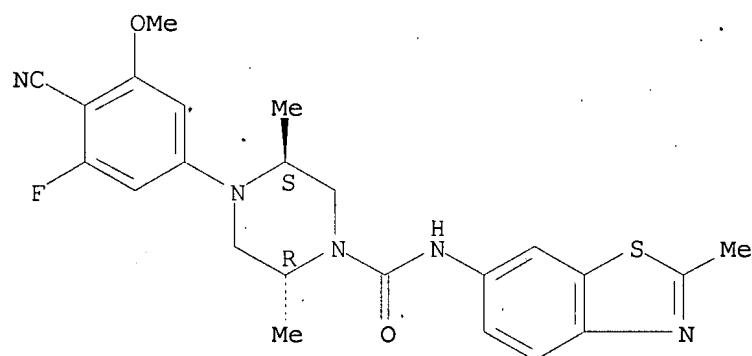
10/513699



RN 648423-33-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluoro-5-methoxyphenyl)-2,5-dimethyl-N-(2-methyl-6-benzothiazolyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

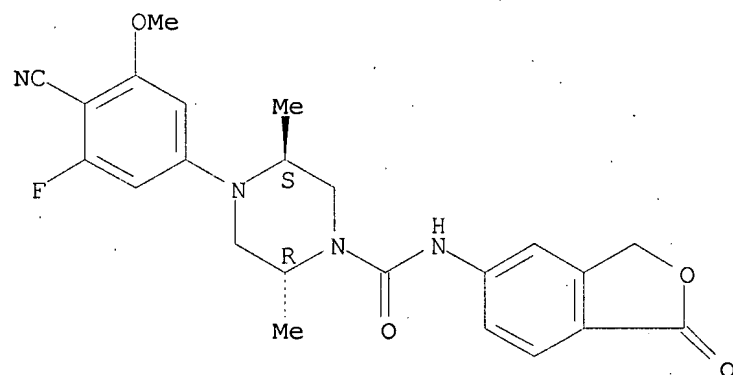
Absolute stereochemistry.



RN 648423-34-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluoro-5-methoxyphenyl)-N-(1,3-dihydro-1-oxo-5-isobenzofuranyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

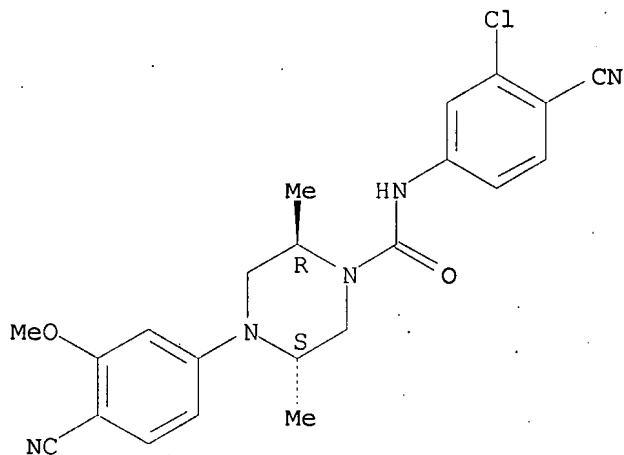


10/513699

RN 648423-35-2 CAPLUS

CN 1-Piperazinecarboxamide, N-(3-chloro-4-cyanophenyl)-4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

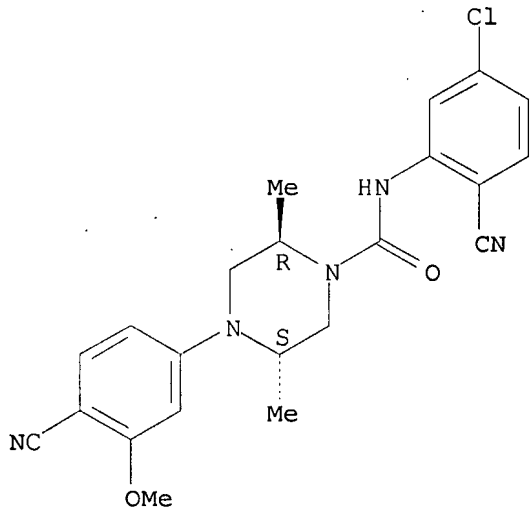
Absolute stereochemistry.



RN 648423-36-3 CAPLUS

CN 1-Piperazinecarboxamide, N-(5-chloro-2-cyanophenyl)-4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

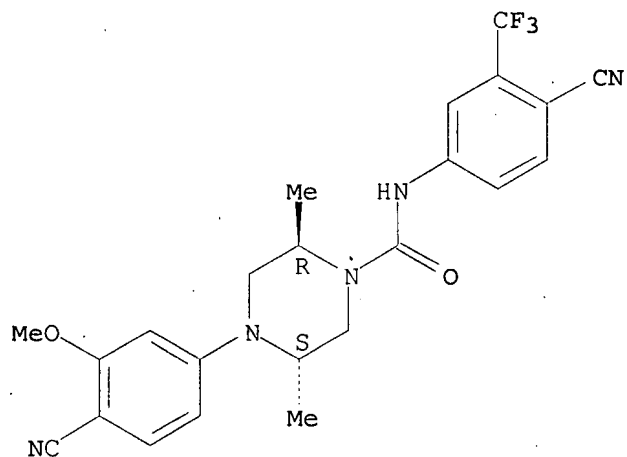


RN 648423-37-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

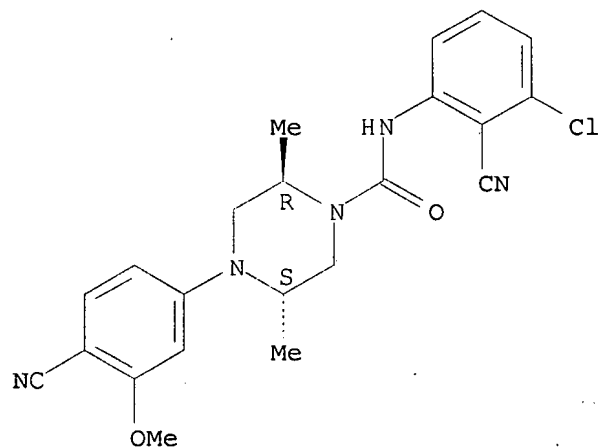
10/513699



RN 648423-38-5 CAPLUS

CN 1-Piperazinecarboxamide, N-(3-chloro-2-cyanophenyl)-4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

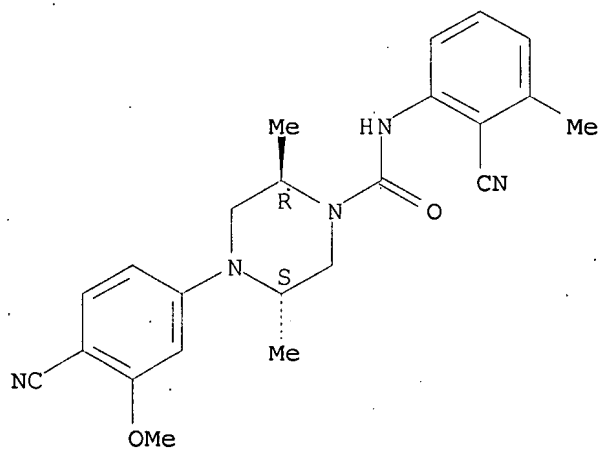


RN 648423-39-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(2-cyano-3-methylphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

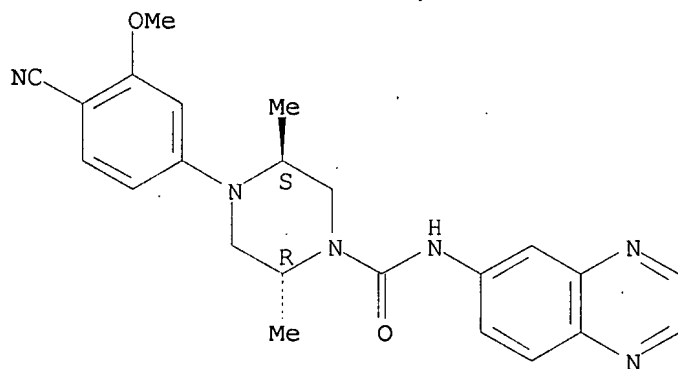
10/513699



RN 648423-40-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-N-6-quinoxaliny-, (2R,5S)- (9CI) (CA INDEX NAME)

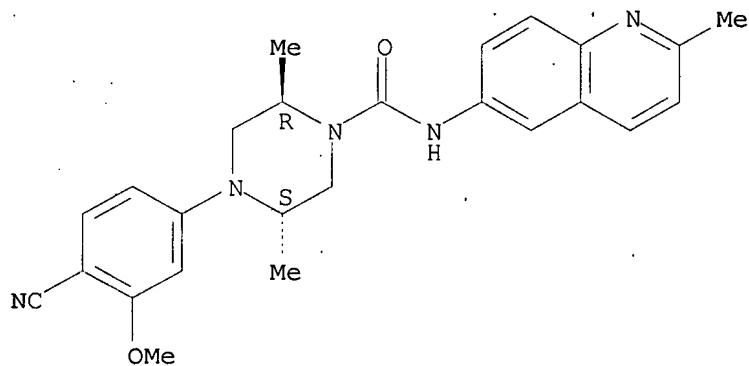
Absolute stereochemistry.



RN 648423-41-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-N-(2-methyl-6-quinolinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



<12/04/2007>

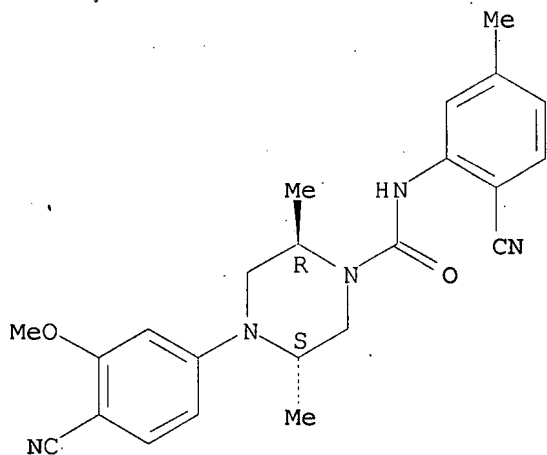
Erich Leese

10/513699

RN 648423-42-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(2-cyano-5-methylphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

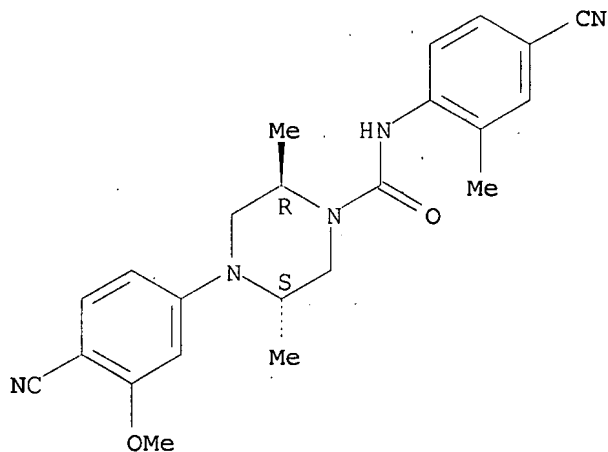
Absolute stereochemistry.



RN 648423-43-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(4-cyano-2-methylphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

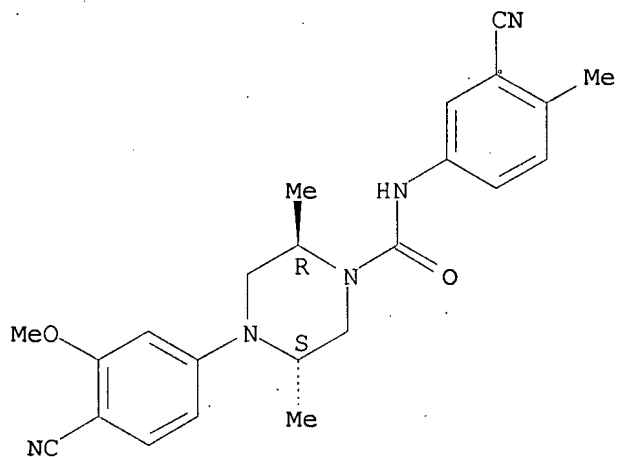


RN 648423-44-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(3-cyano-4-methylphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

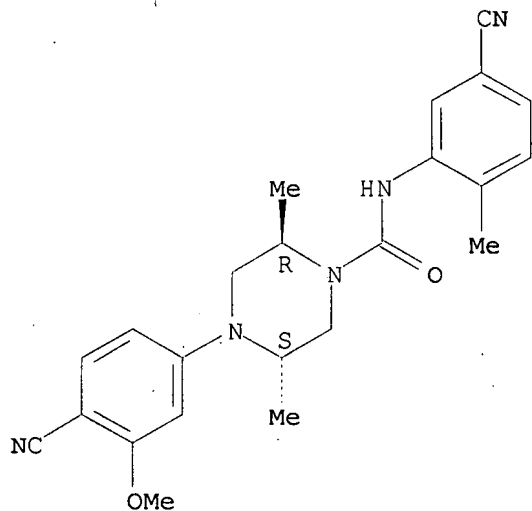
10/513699



RN 648423-45-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(5-cyano-2-methylphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

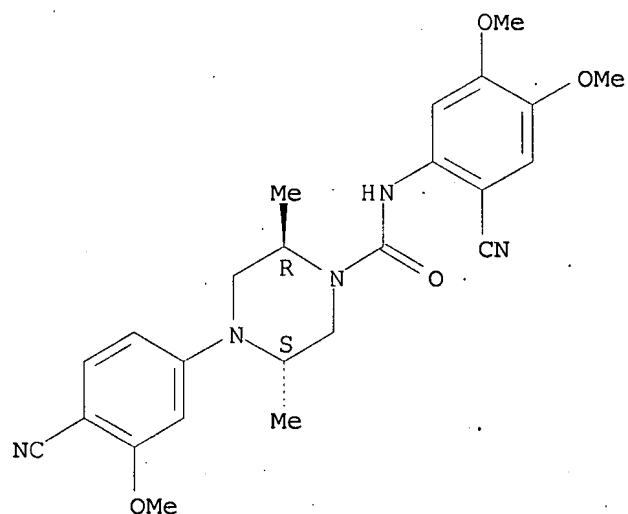


RN 648423-46-5 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-cyano-4,5-dimethoxyphenyl)-4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

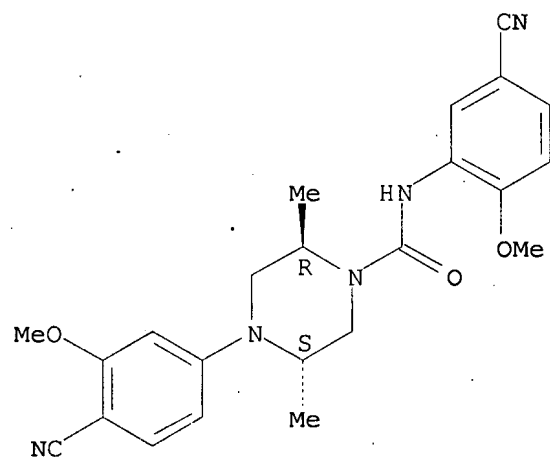
10/513699



RN 648423-47-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(5-cyano-2-methoxyphenyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

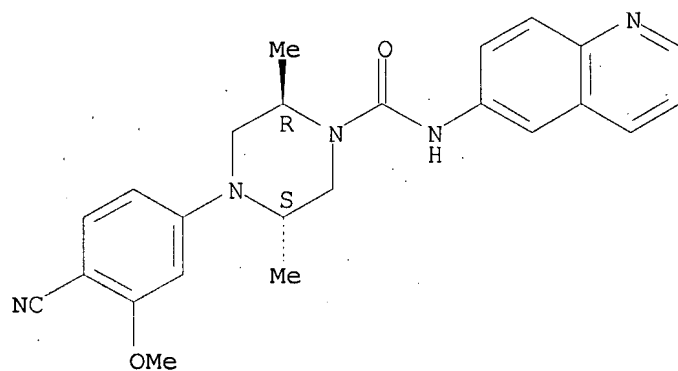


RN 648423-48-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-2,5-dimethyl-N-6-quinolinyl-, monohydrochloride, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10/513699

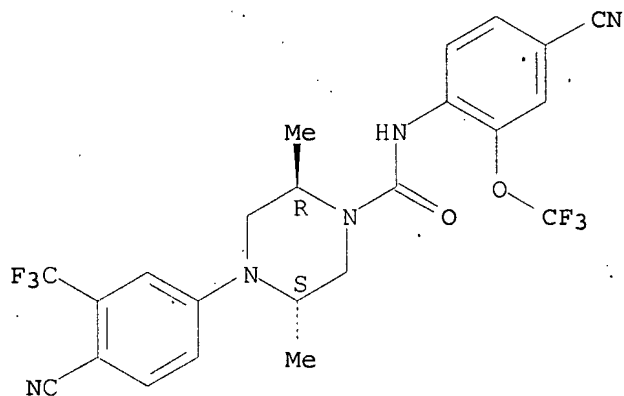


● HCl

RN 648423-49-8 CAPLUS

CN 1-Piperazinecarboxamide, N-[4-cyano-2-(trifluoromethoxy)phenyl]-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

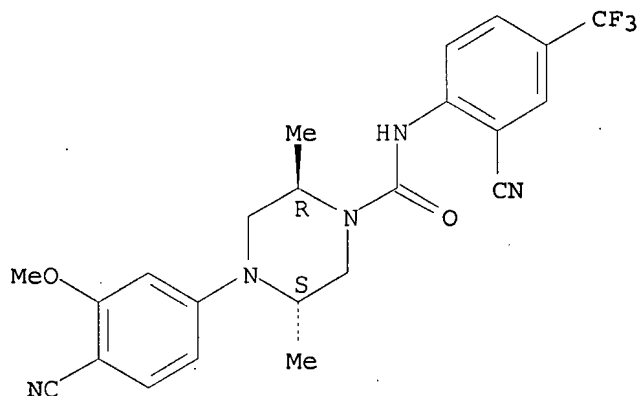


RN 648423-50-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-[2-cyano-4-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

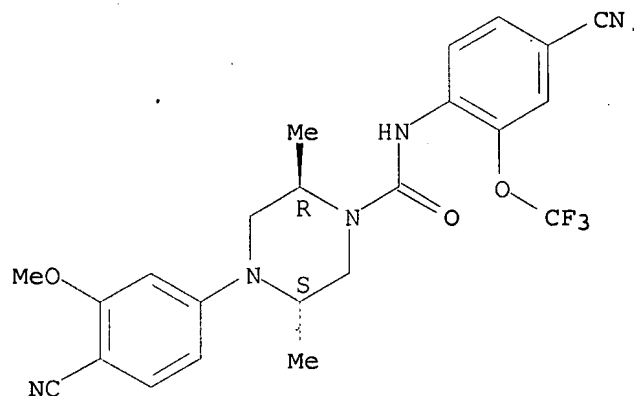
10/513699



RN 648423-51-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-[4-cyano-2-(trifluoromethoxy)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:857479 CAPLUS

DOCUMENT NUMBER: 136:600

TITLE: Pharmaceuticals containing antiandrogen cyanophenyl compounds

INVENTOR(S): Taniguchi, Nobuaki; Kinoyama, Isao; Kamikubo, Takashi; Toshima, Hiroshi; Samizu, Kiyohiro; Kawanami, Eiji; Imamura, Masakazu; Moritomo, Hiroyuki; Matsuhisa, Akira; Hirano, Hiroaki; Miyasaki, Yoji; Nozawa, Shigenori; Okada, Minoru; Koutoku, Hiroshi; Ota, Mitsuaki

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 33 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

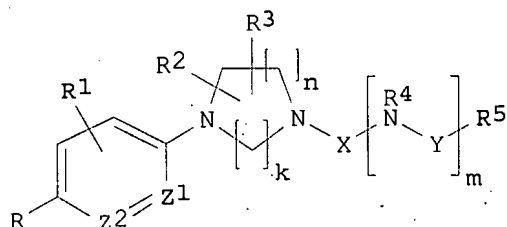
PATENT INFORMATION:

<12/04/2007>

Erich. Leese

10/513699

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2001328938	A	20011127	JP 2001-69833	20010313
PRIORITY APPLN. INFO.:			JP 2000-75008	A 20000317
OTHER SOURCE(S):	MARPAT	136:600		
GI				



T

AB Pharmaceuticals, useful for treatment of prostatic cancer, prostatic hypertrophy, virilism, etc., contain cyanophenyl compds. I [R = cyano, NO₂; R₁ = H, halo, cyano, haloalkyl, NO₂, etc.; R₂-R₄ = H, lower alkyl, (alkyl)carbamoyl, etc.; R₅ = lower alkyl, arylalkoxy, CO₂H, lower alkoxycarbonyl, etc.; X = CO, C(S), SO₂; Y = bond, lower alkylene, CO, SO₂; Z₁, Z₂ = CH, N; k, n = 1-3; m = 0, 1] or their salts. (2R,5S)-I (R = cyano, R₁ = 3-CF₃, R₂ = 2-Me, R₃ = 5-Me, k = 2, m = n = 1, X = CO, R₄ = H, R₅ = 2-bromo-4-pyridyl) (preparation given) in vitro bound to rat androgen receptor with K_i of 7.56 nM.

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10/513699

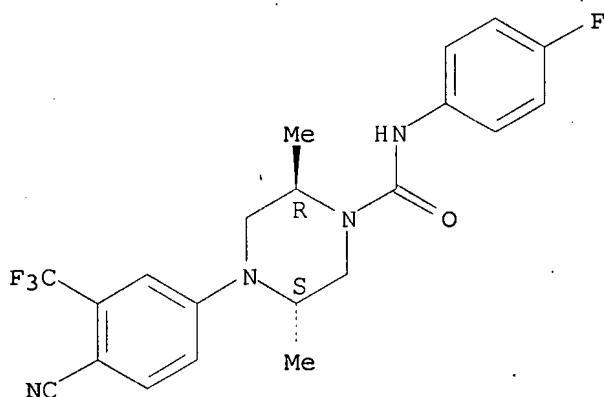
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375366-52-2P 375366-54-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of cyanophenyl compds. as antiandrogens)

RN 262293-89-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(4-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

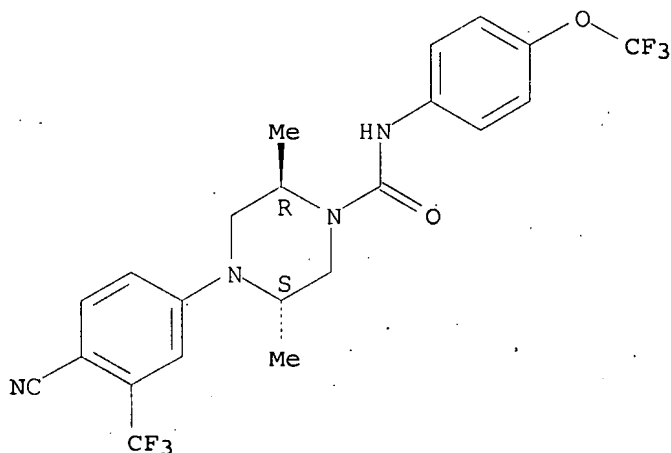
Relative stereochemistry.



RN 262293-91-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-(trifluoromethoxy)phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

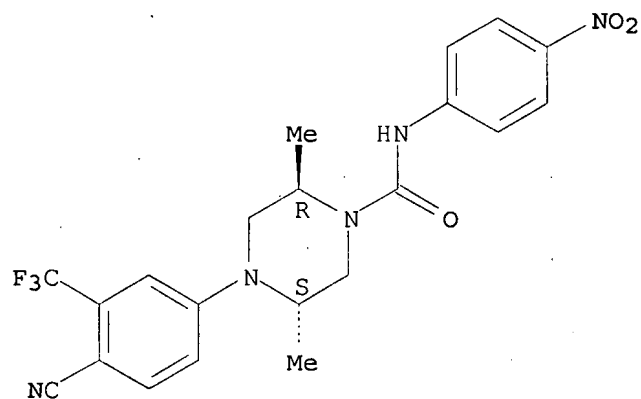


RN 262293-92-5 CAPLUS

10/513699

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(4-nitrophenyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

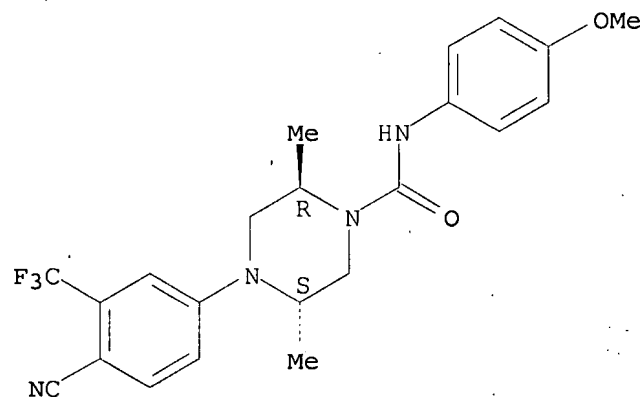
Relative stereochemistry.



RN 262293-93-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(4-methoxyphenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

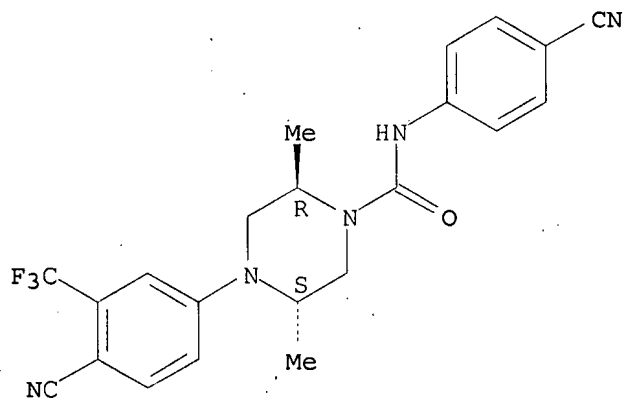


RN 262293-94-7 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-cyanophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

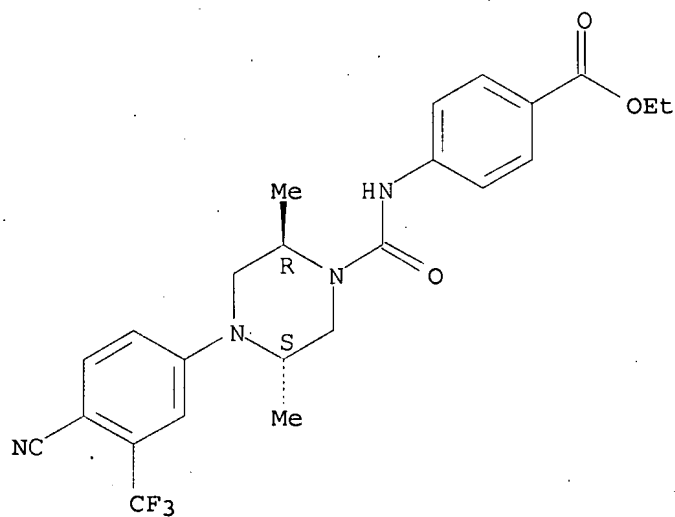
10/513699



RN 262293-95-8 CAPLUS

CN Benzoic acid, 4-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, ethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

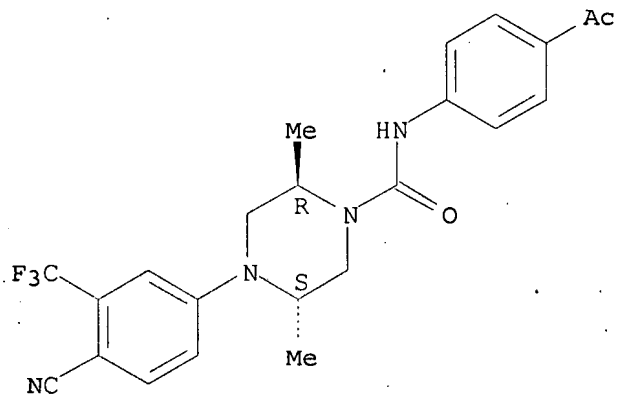


RN 262293-96-9 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-acetylphenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

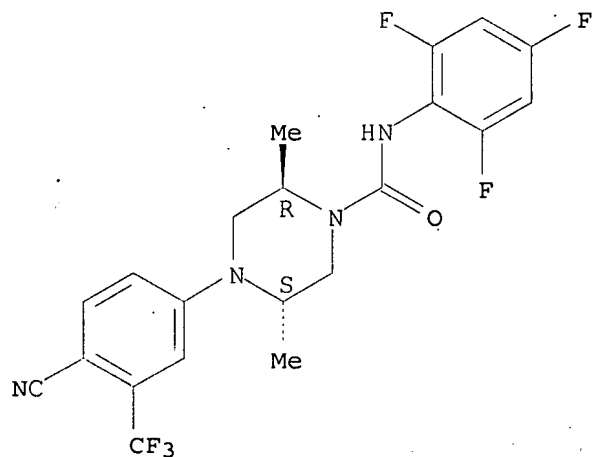
10/513699



RN 262293-97-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2,4,6-trifluorophenyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

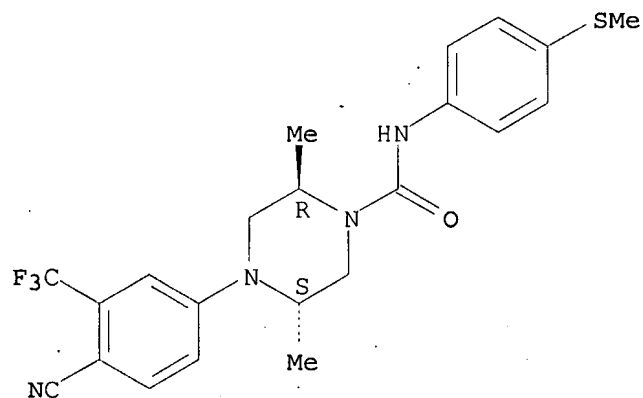


RN 262293-98-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-(methylthio)phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

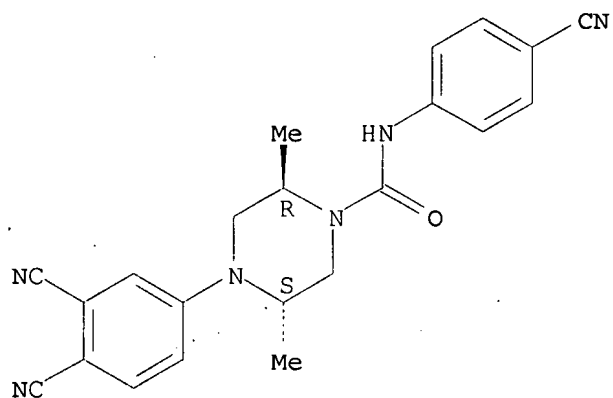
10/513699



RN 262294-02-0 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-cyanophenyl)-4-(3,4-dicyanophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

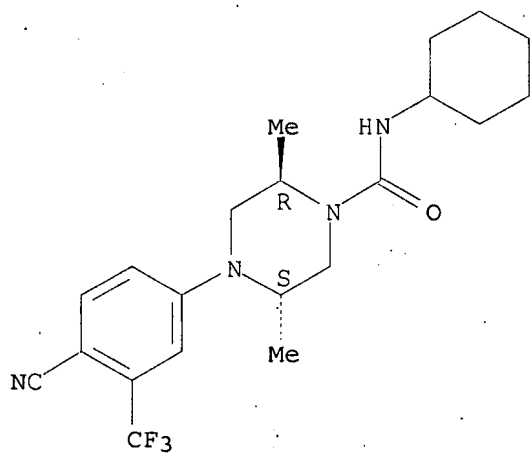


RN 262294-08-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-cyclohexyl-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

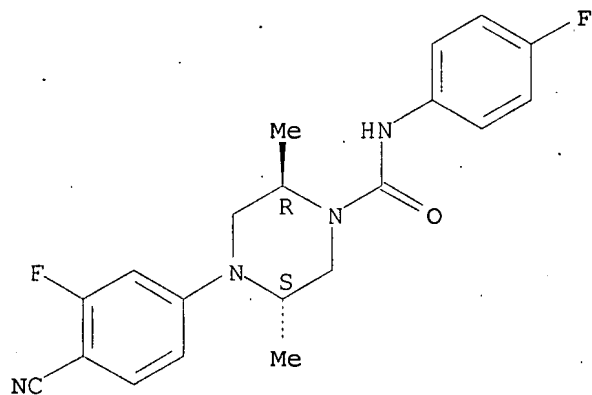
10/513699



RN 262294-12-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluorophenyl)-N-(4-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

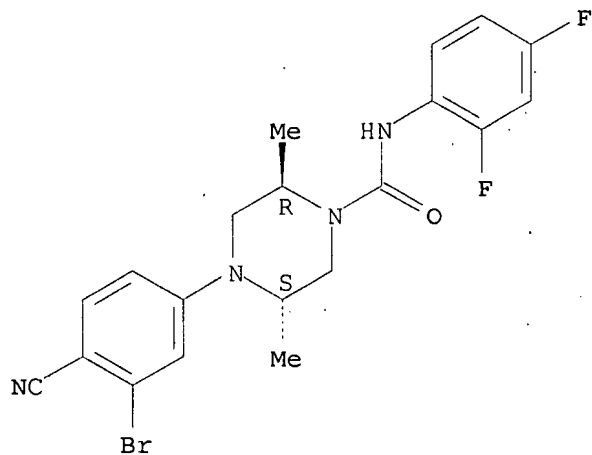


RN 262294-13-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-bromo-4-cyanophenyl)-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

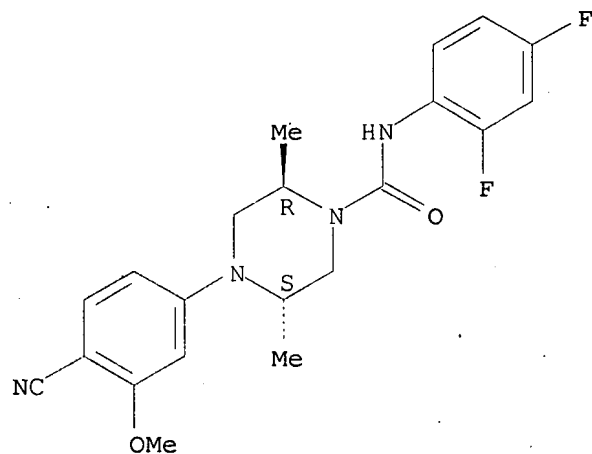
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RN 262294-14-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

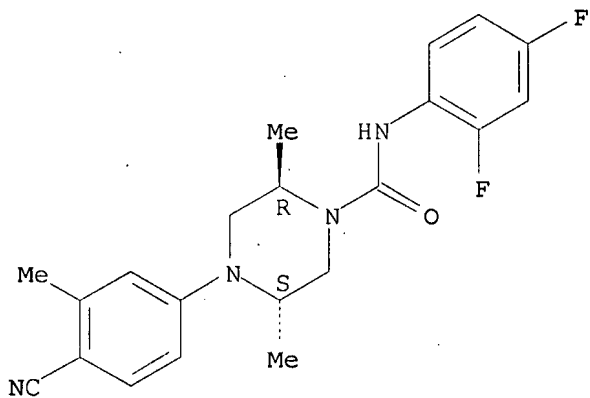


RN 262294-15-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methylphenyl)-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

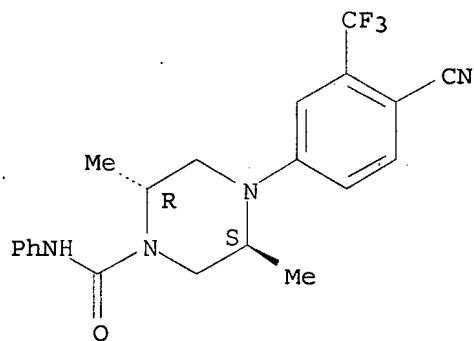
10/513699



RN 262294-21-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-phenyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

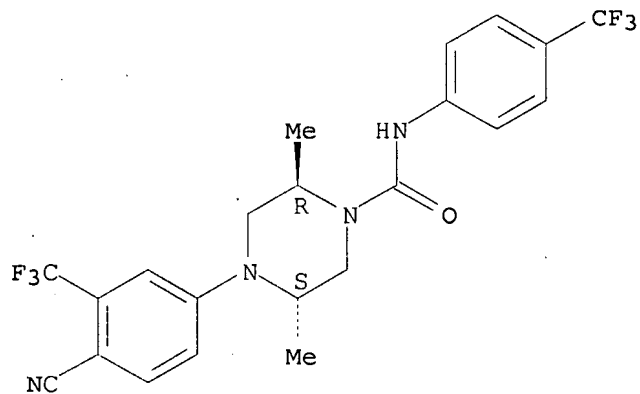
Relative stereochemistry.



RN 262294-22-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-(trifluoromethyl)phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



<12/04/2007>

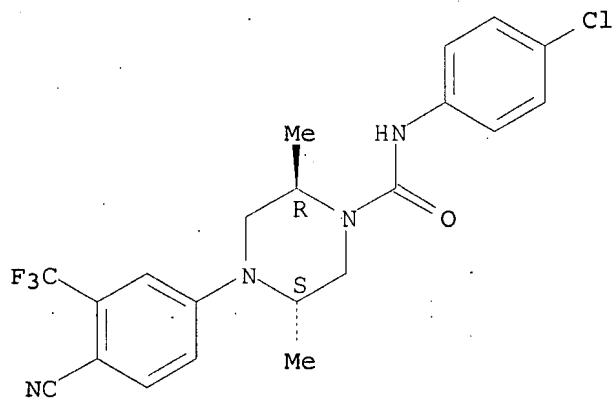
Erich Leese

10/513699

RN 262294-23-5 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-chlorophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

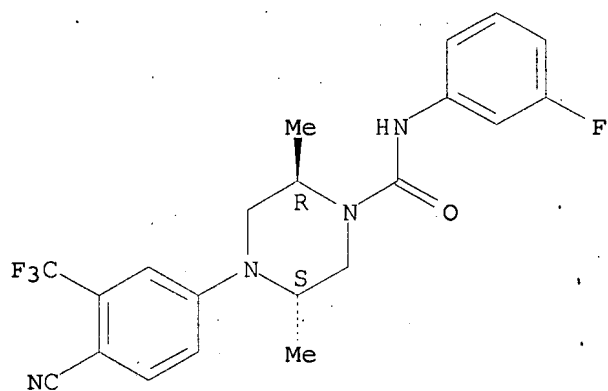
Relative stereochemistry.



RN 262294-24-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(3-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

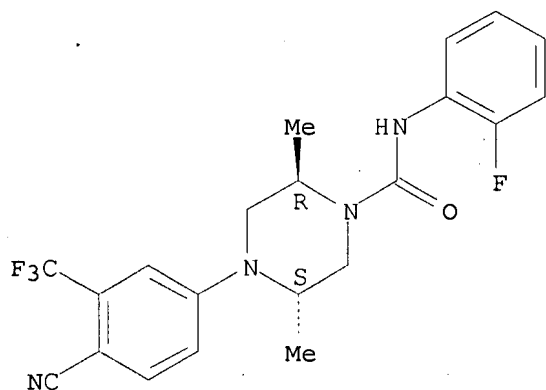


RN 262294-25-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

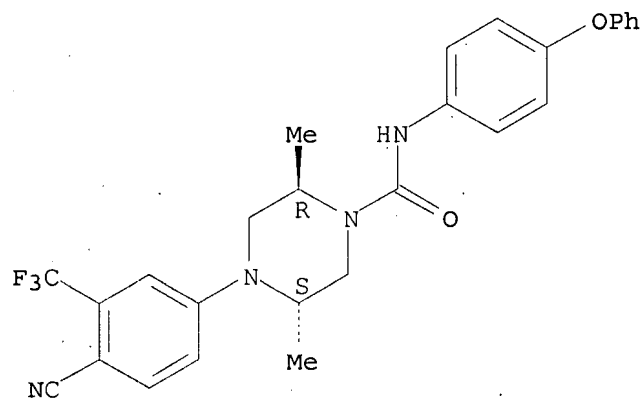
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RN 262294-27-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(4-phenoxyphenyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

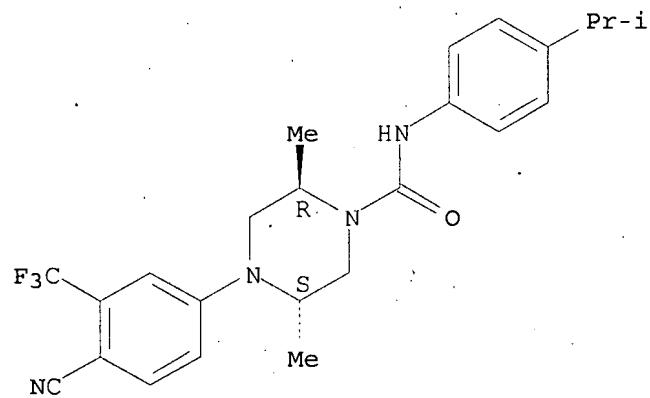
Relative stereochemistry..



RN 262294-28-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-(1-methylethyl)phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

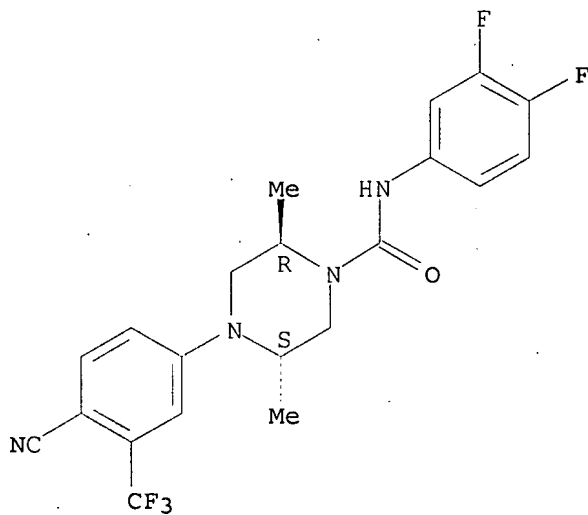


10/513699

RN 262294-29-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(3,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

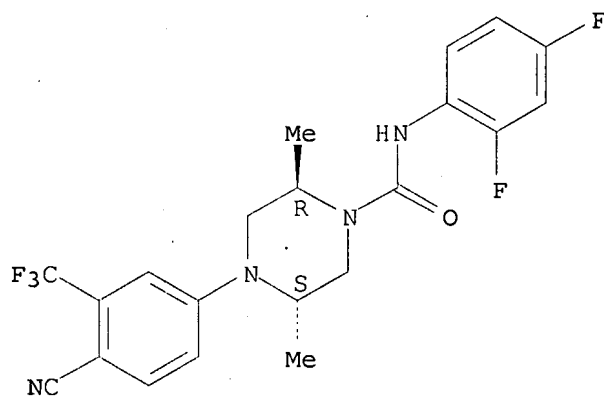
Relative stereochemistry.



RN 262294-30-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

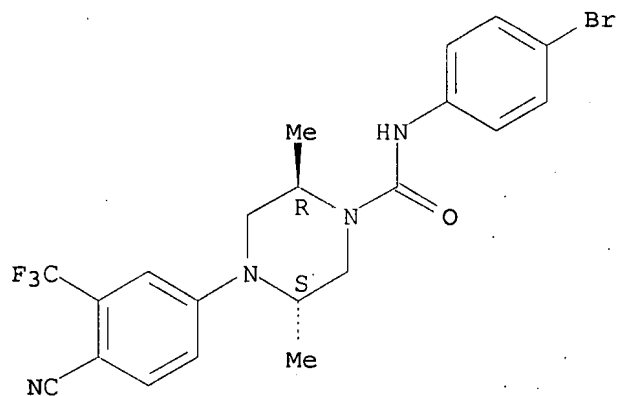


RN 262294-31-5 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-bromophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

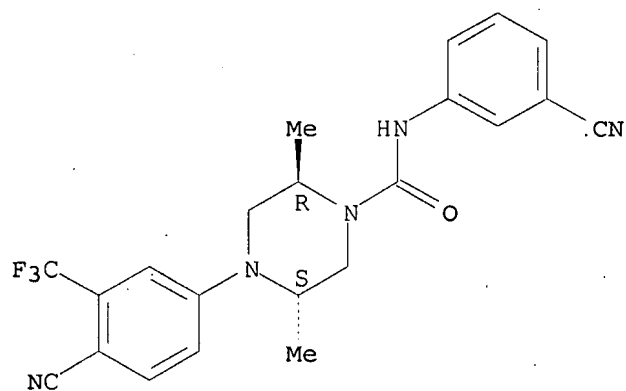
10/513699



RN 262294-32-6 CAPLUS

CN 1-Piperazinecarboxamide, N-(3-cyanophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

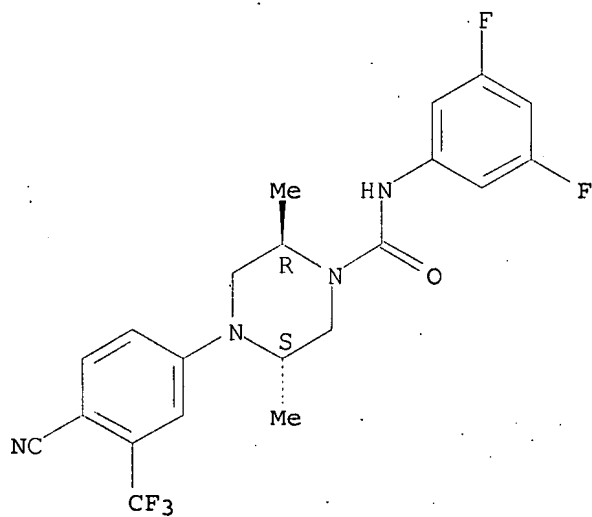


RN 262294-34-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(3,5-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

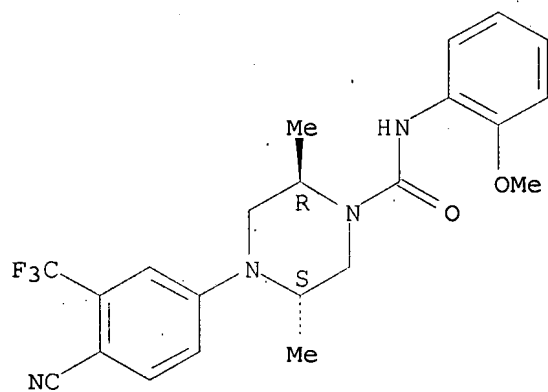
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RN 262294-35-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-methoxyphenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

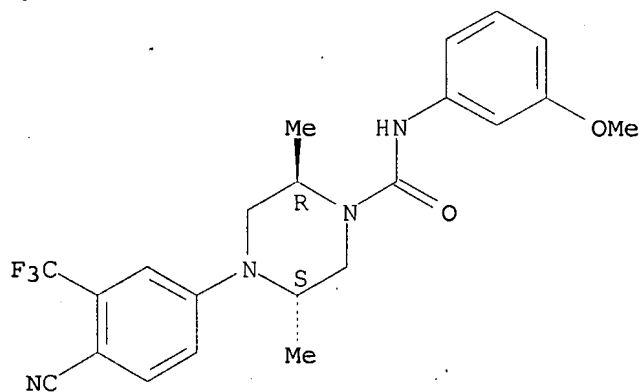


RN 262294-36-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(3-methoxyphenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

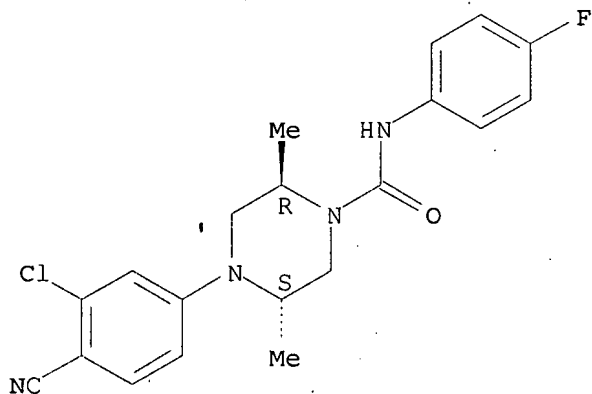
10/513699



RN 262294-37-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-N-(4-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

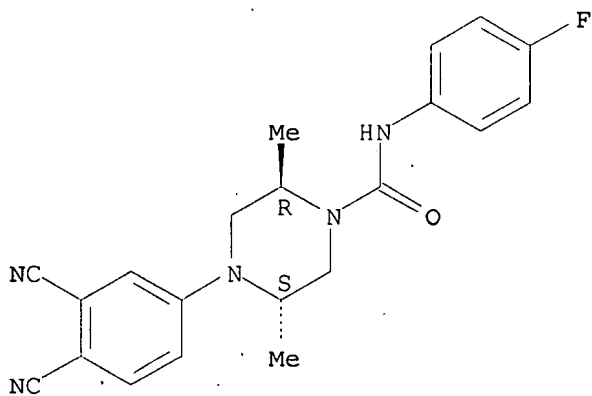
Relative stereochemistry.



RN 262294-38-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3,4-dicyanophenyl)-N-(4-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

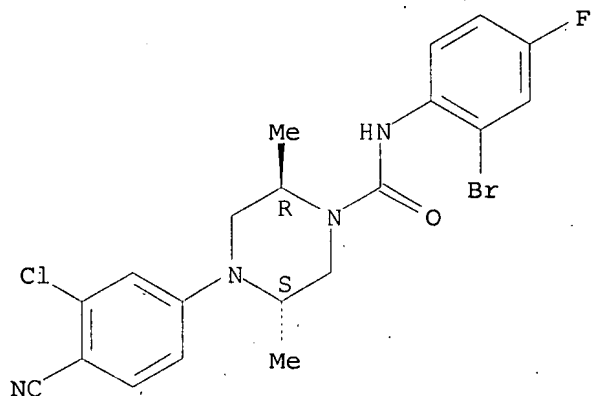


10/513699

RN 262294-42-8 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-bromo-4-fluorophenyl)-4-(3-chloro-4-cyanophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

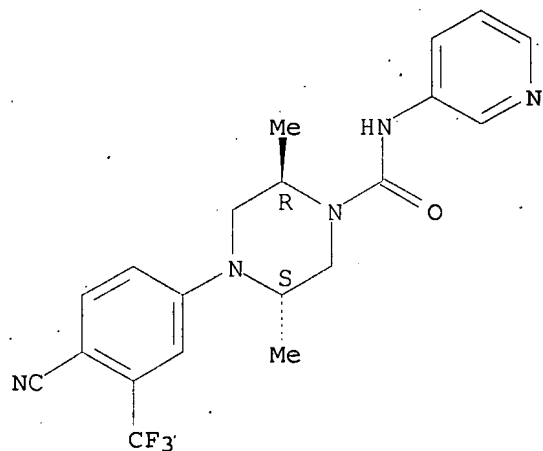
Relative stereochemistry.



RN 262294-46-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-3-pyridinyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

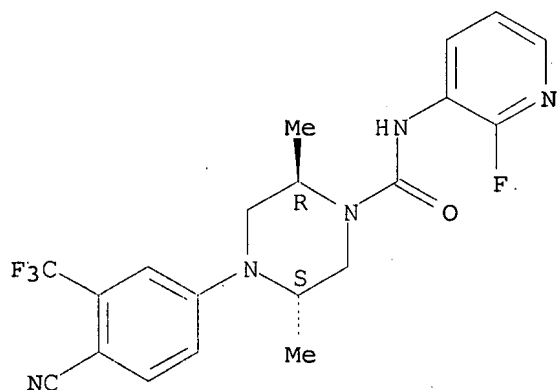


RN 262294-47-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-fluoro-3-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

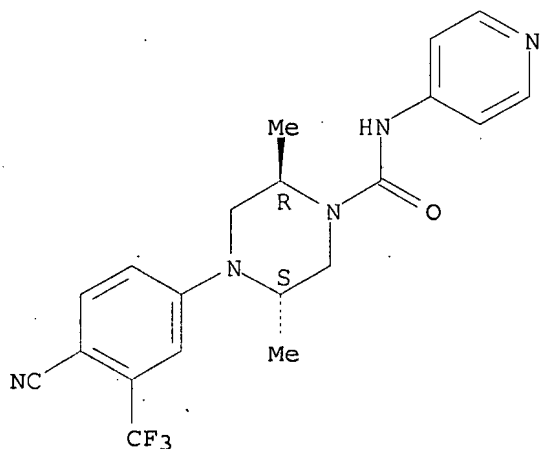
10/513699



RN 262294-48-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-4-pyridinyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

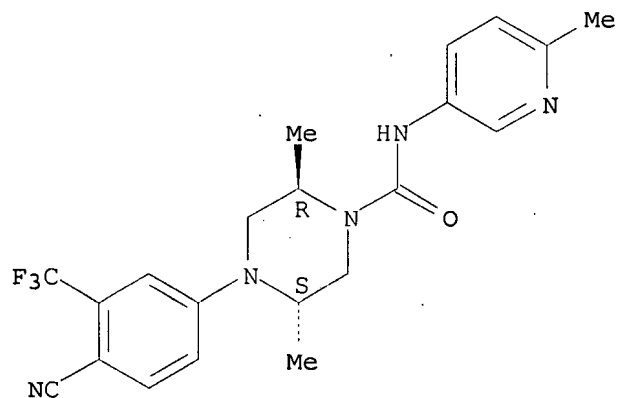


RN 262294-49-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(6-methyl-3-pyridinyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

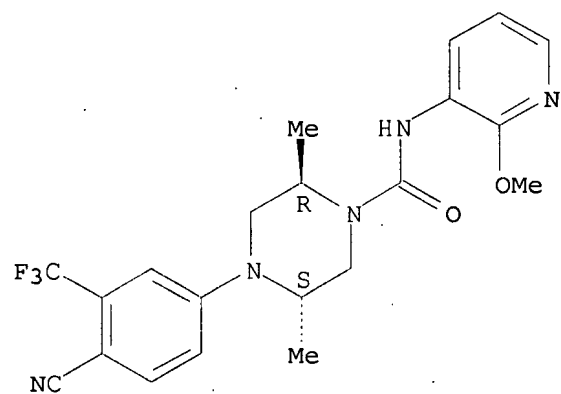
10/513699



RN 262294-50-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-methoxy-3-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

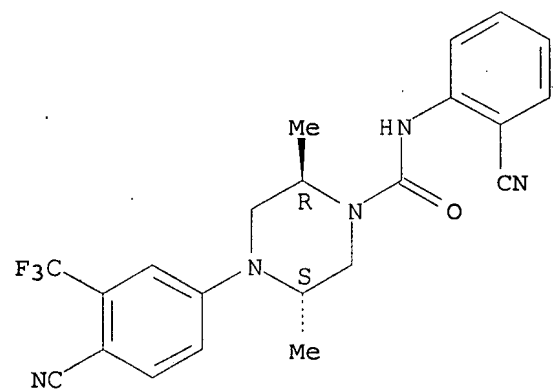
Relative stereochemistry.



RN 262294-51-9 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-cyanophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



<12/04/2007>

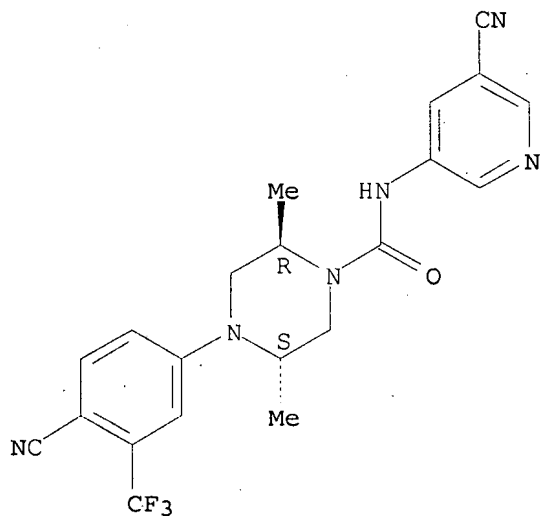
Erich Leese

10/513699

RN 262294-52-0 CAPLUS

CN 1-Piperazinecarboxamide, N-(5-cyano-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

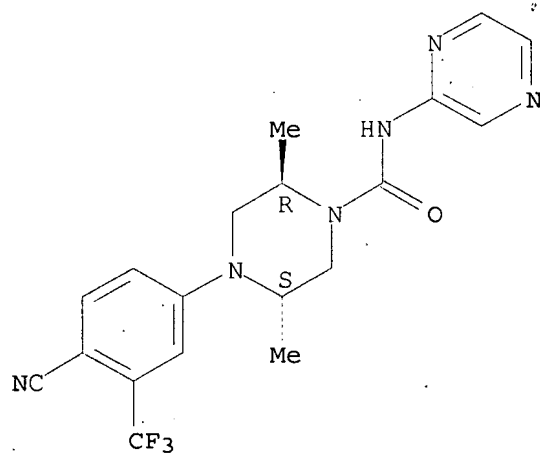
Relative stereochemistry.



RN 262294-55-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-pyrazinyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

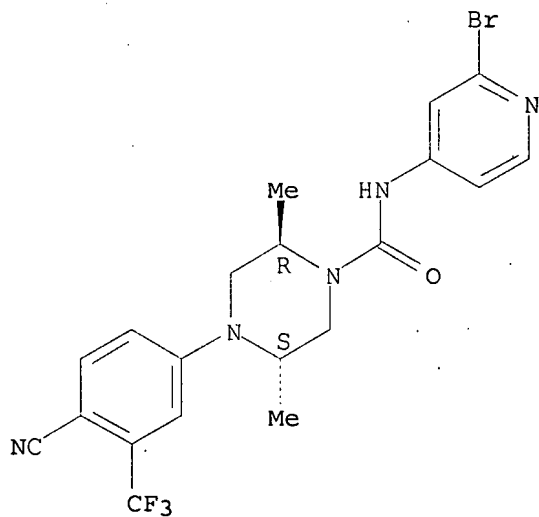


RN 262294-61-1 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-bromo-4-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

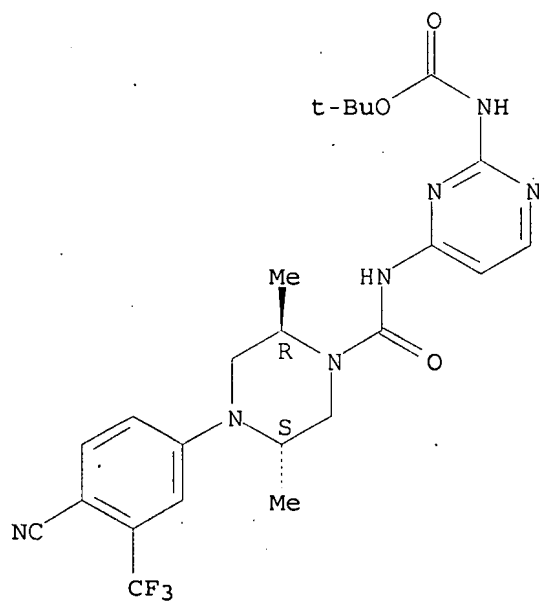
10/513699



RN 262294-62-2 CAPLUS

CN Carbamic acid, [4-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-2-pyrimidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

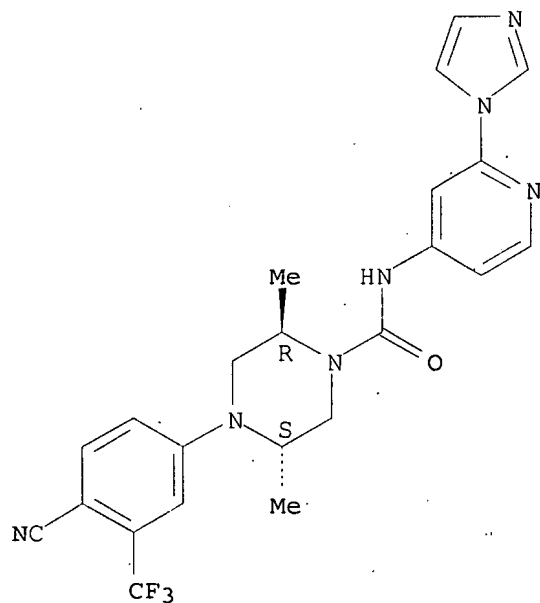


RN 262294-63-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-[2-(1H-imidazol-1-yl)-4-pyridinyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

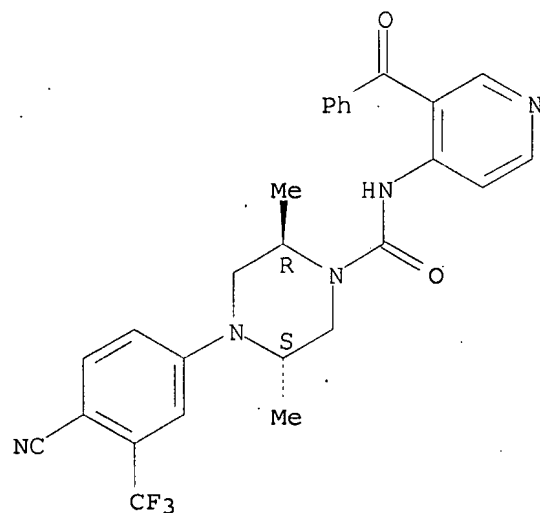
10/513699



RN 262294-64-4 CAPLUS

CN 1-Piperazinecarboxamide, N-(3-benzoyl-4-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

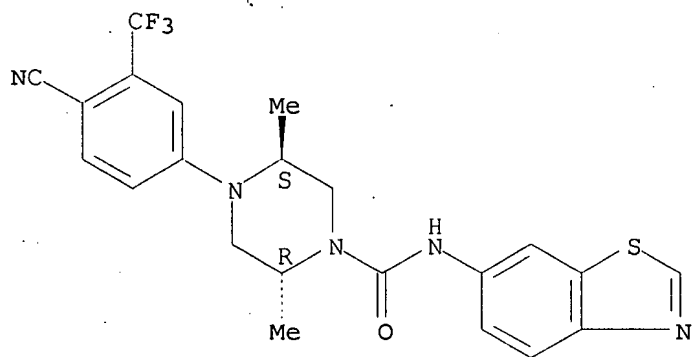


RN 262294-70-2 CAPLUS

CN 1-Piperazinecarboxamide, N-6-benzothiazolyl-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

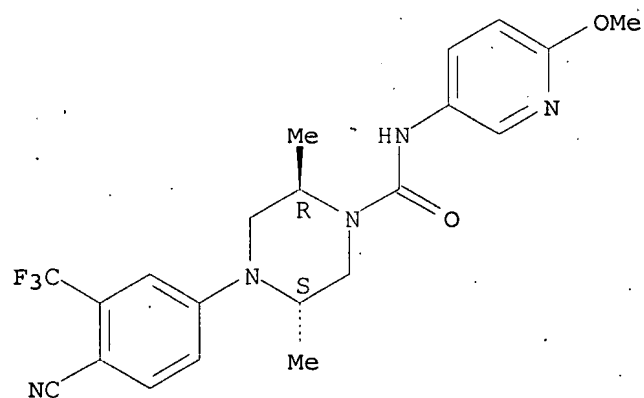
10/513699



RN 262294-73-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(6-methoxy-3-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

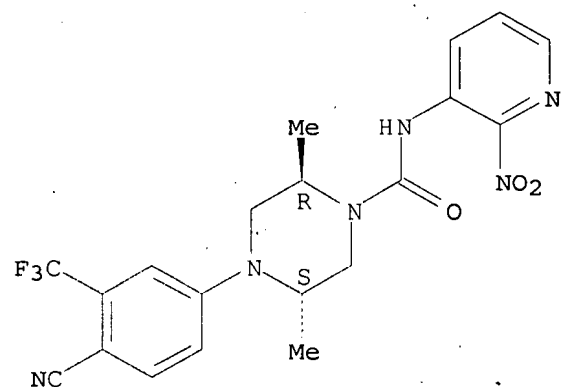
Absolute stereochemistry.



RN 262294-75-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2-nitro-3-pyridinyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

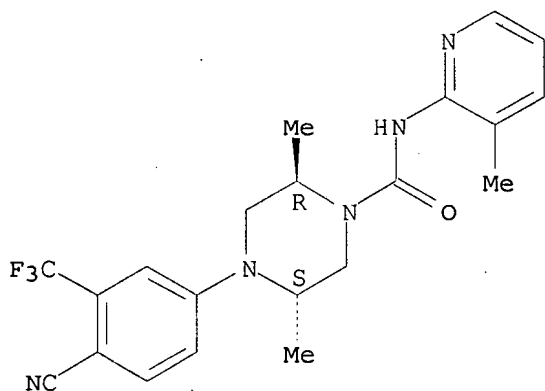


10/513699

RN 262294-76-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(3-methyl-2-pyridinyl)-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

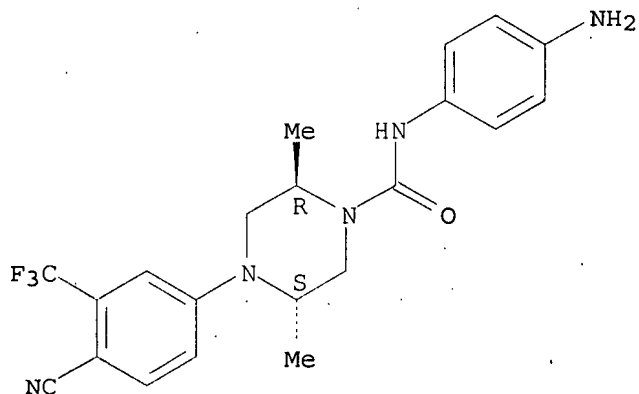


● HCl

RN 262294-90-6 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-aminophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

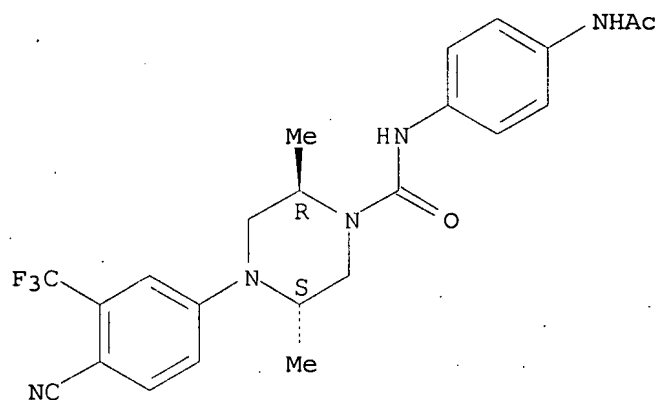


RN 262294-91-7 CAPLUS

CN 1-Piperazinecarboxamide, N-[4-(acetamido)phenyl]-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

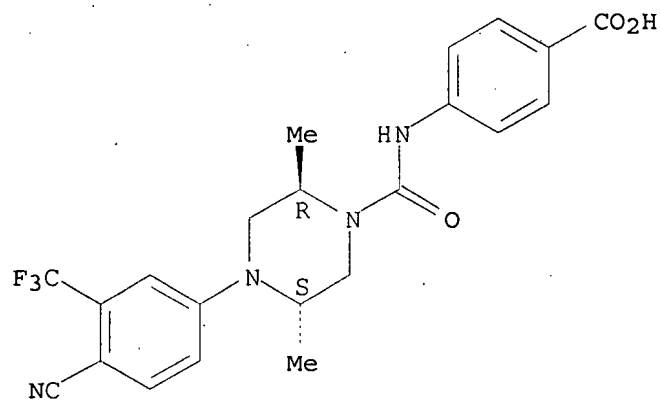
10/513699



RN 262294-93-9 CAPLUS

CN Benzoic acid, 4-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

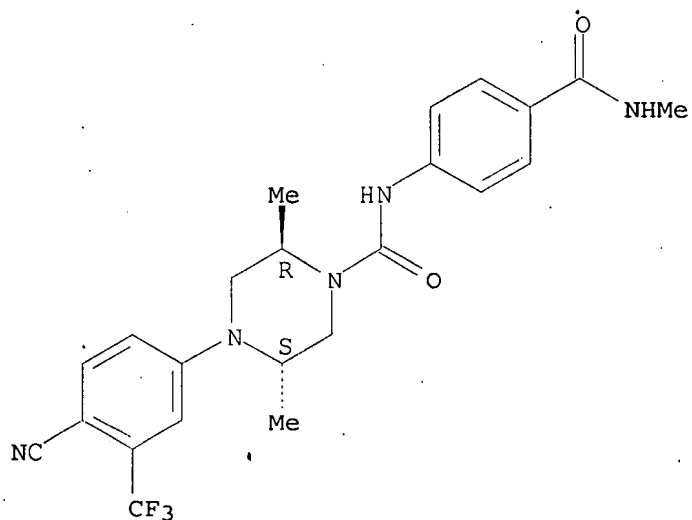


RN 262294-96-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-[(methylamino)carbonyl]phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

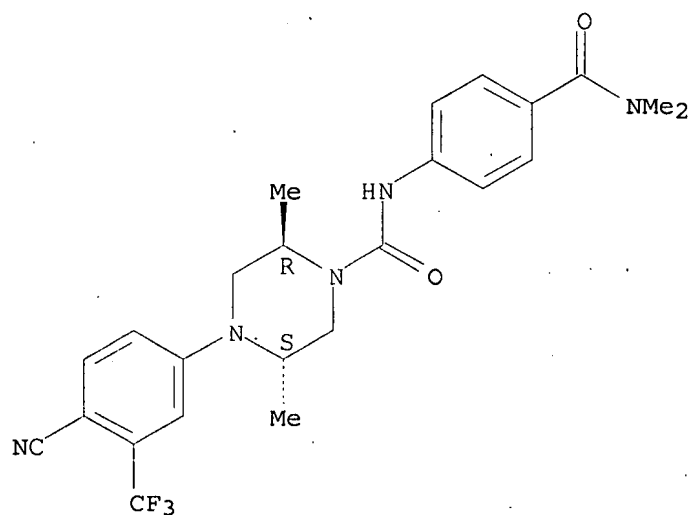
10/513699



RN 262294-97-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-[4-[(dimethylamino)carbonyl]phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

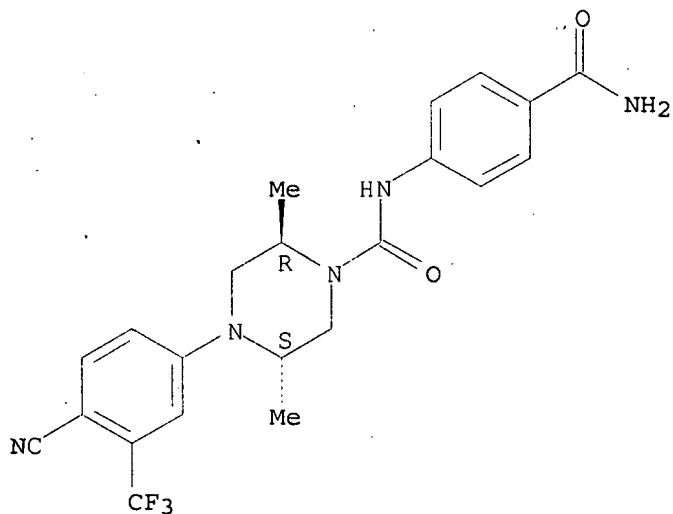


RN 262294-98-4 CAPLUS

CN 1-Piperazinecarboxamide, N-[4-(aminocarbonyl)phenyl]-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

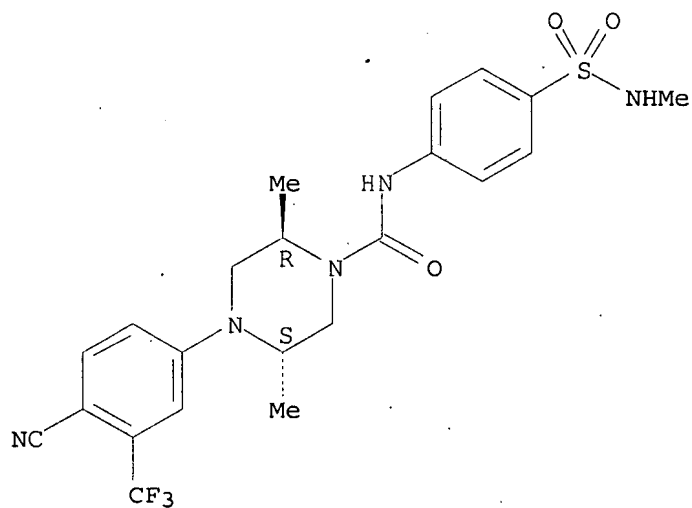
10/513699



RN 262294-99-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-[(methylamino)sulfonyl]phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

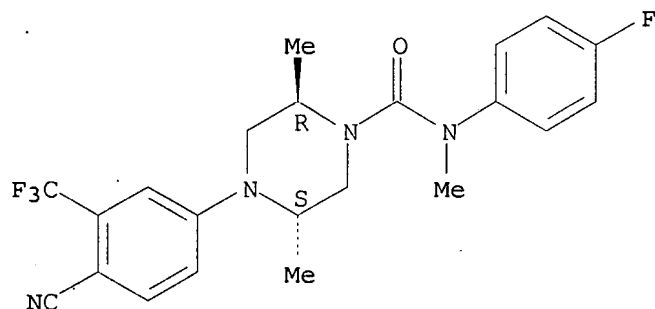


RN 262295-00-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(4-fluorophenyl)-N,2,5-trimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

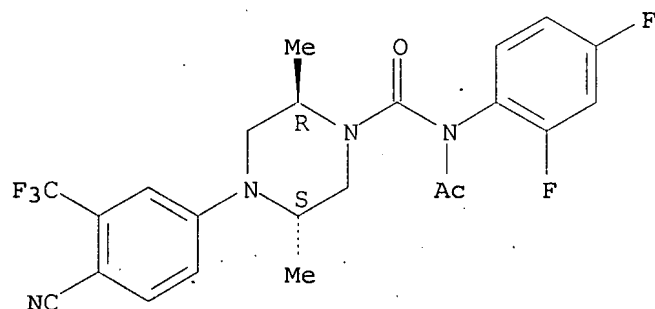
10/513699



RN 262295-01-2 CAPLUS

CN 1-Piperazinecarboxamide, N-acetyl-4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

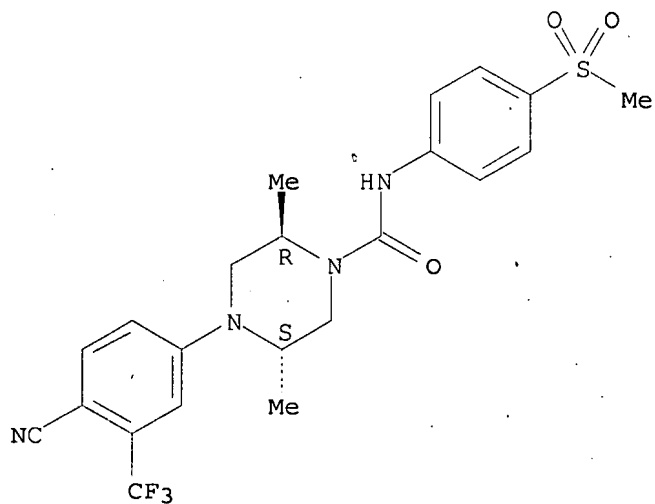
Relative stereochemistry.



RN 262295-04-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-(methylsulfonyl)phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



<12/04/2007>

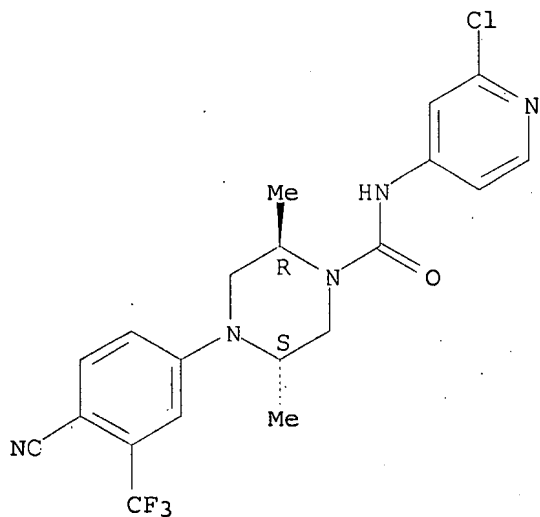
Erich Leese

10/513699

RN 262295-08-9 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-chloro-4-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

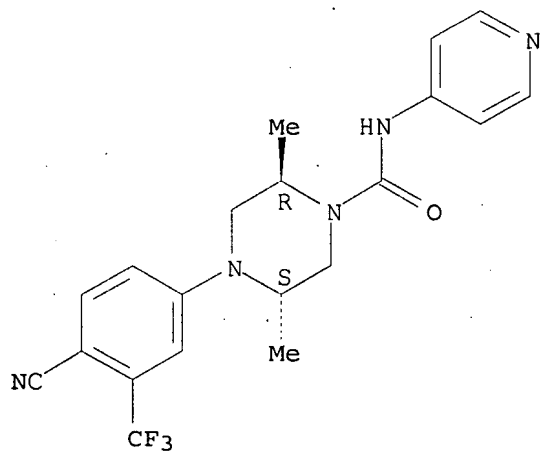
Absolute stereochemistry.



RN 262295-09-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-4-pyridinyl-, monohydrochloride, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

RN 262295-10-3 CAPLUS

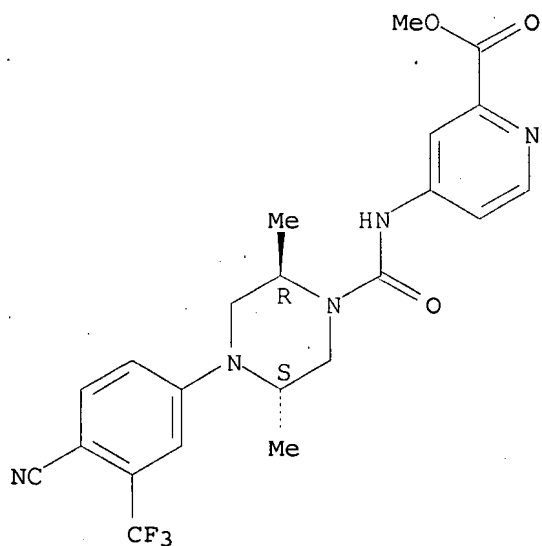
CN 2-Pyridinecarboxylic acid, 4-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

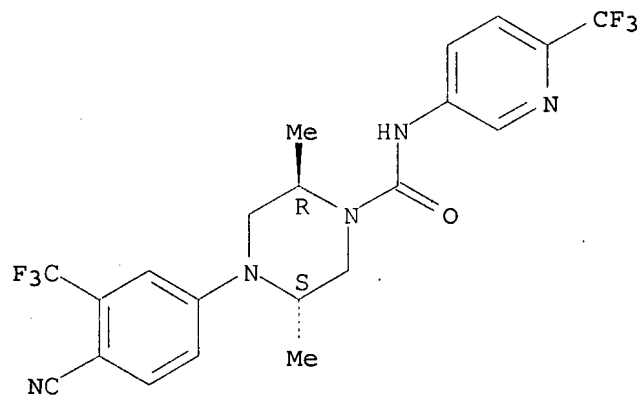
Absolute stereochemistry.



RN 262295-11-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

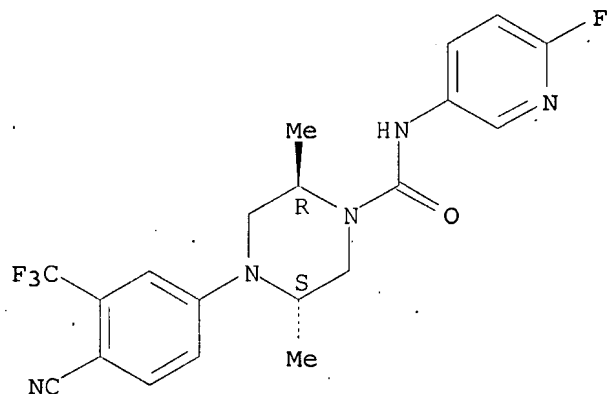


RN 262295-12-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(6-fluoro-3-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

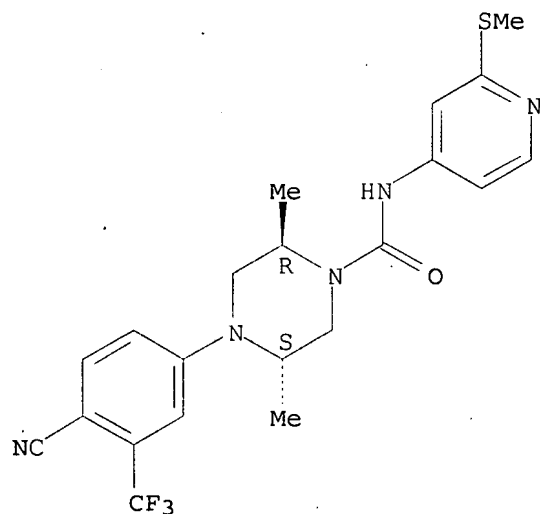
10/513699



RN 262295-13-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(methylthio)-4-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

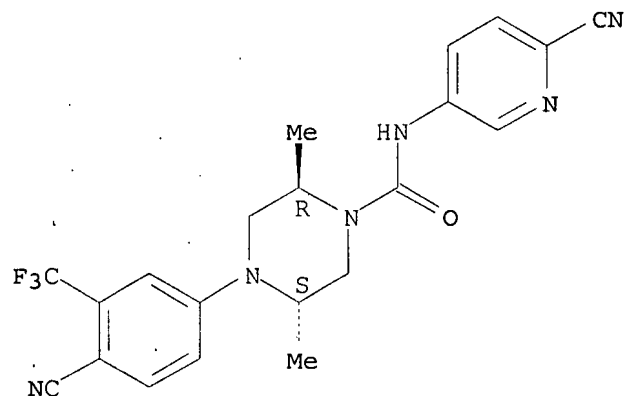


RN 262295-14-7 CAPLUS

CN 1-Piperazinecarboxamide, N-(6-cyano-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

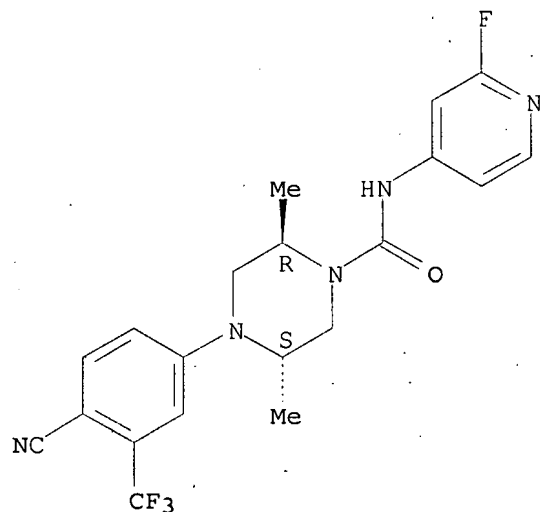
10/513699



RN 262295-15-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-fluoro-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

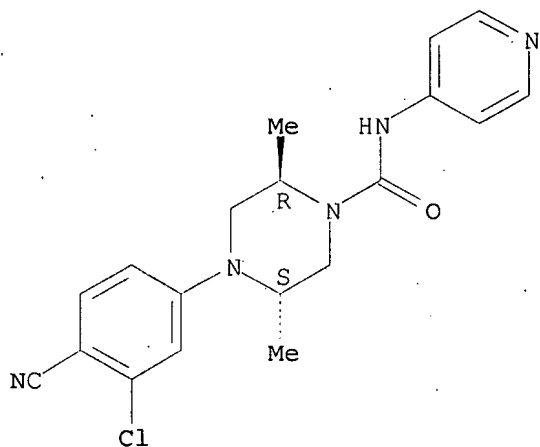


RN 262295-16-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-2,5-dimethyl-N-4-pyridinyl-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

10/513699

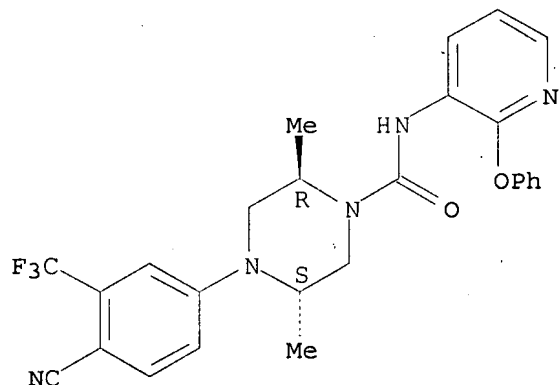


● HCl

RN 262295-18-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2-phenoxy-3-pyridinyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

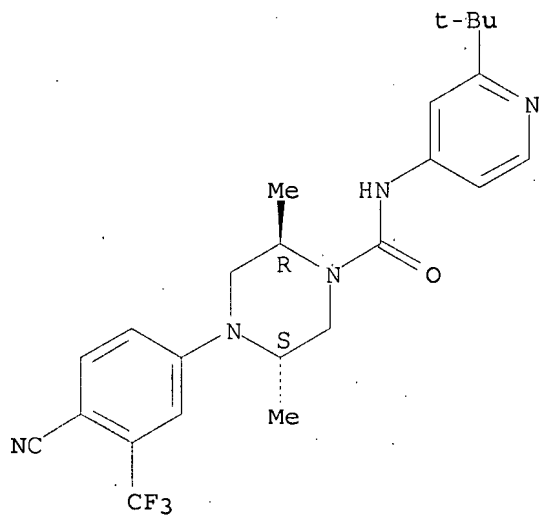


RN 262295-19-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-[2-(1,1-dimethylethyl)-4-pyridinyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

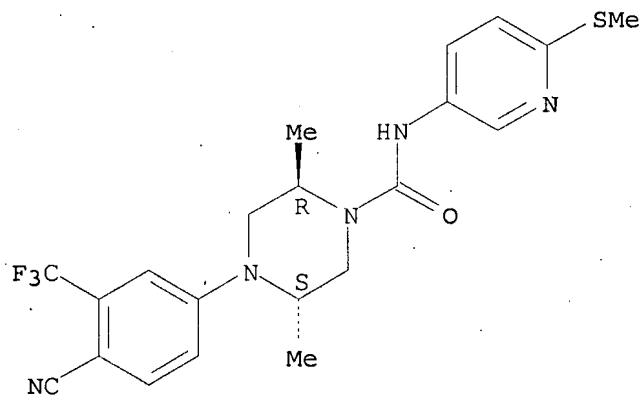
10/513699



RN 262295-20-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(methylthio)-3-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

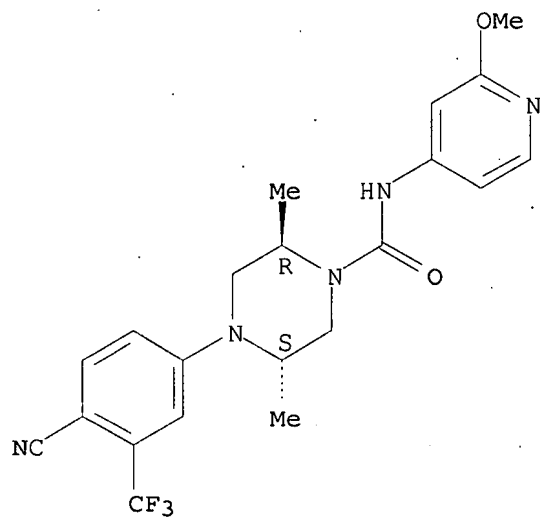


RN 262295-24-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-methoxy-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

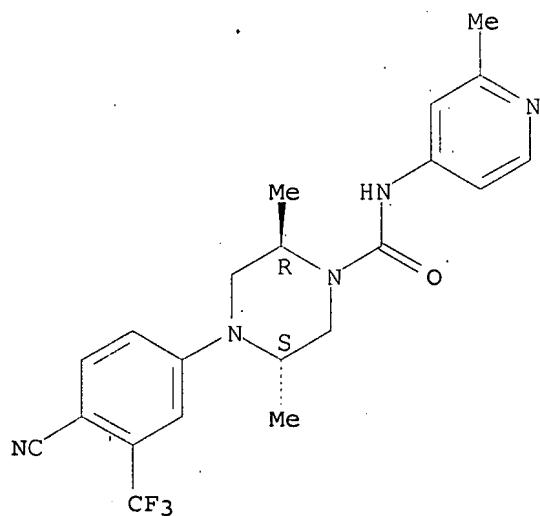
10/513699



RN 262295-25-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2-methyl-4-pyridinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

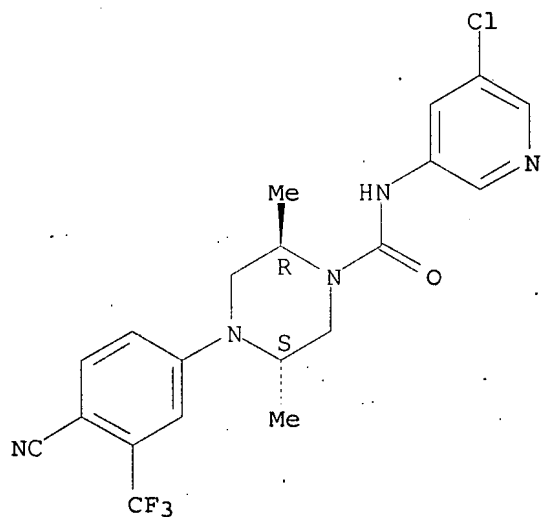


RN 262295-28-3 CAPLUS

CN 1-Piperazinecarboxamide, N-(5-chloro-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

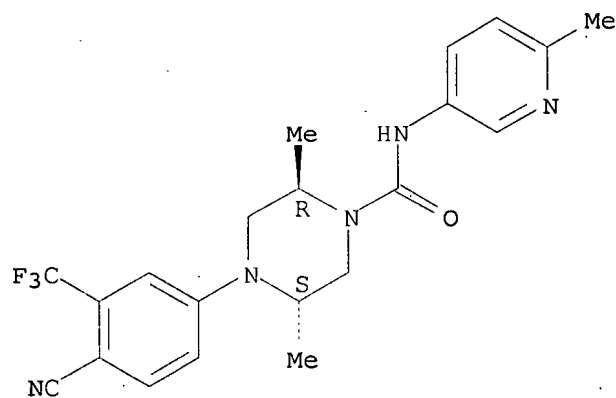
10/513699



RN 262295-29-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(6-methyl-3-pyridinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

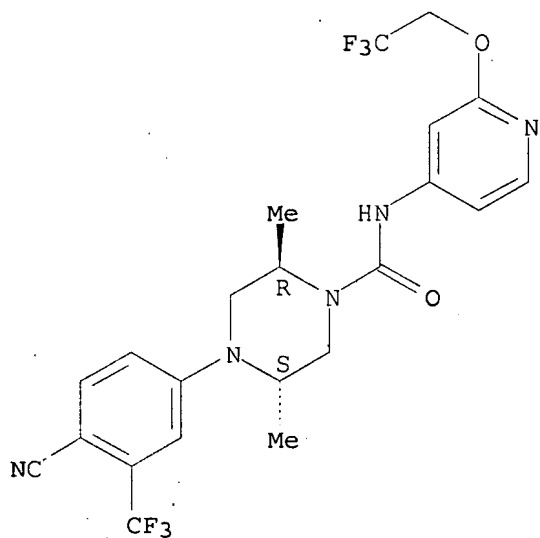


RN 262295-30-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(2,2,2-trifluoroethoxy)-4-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

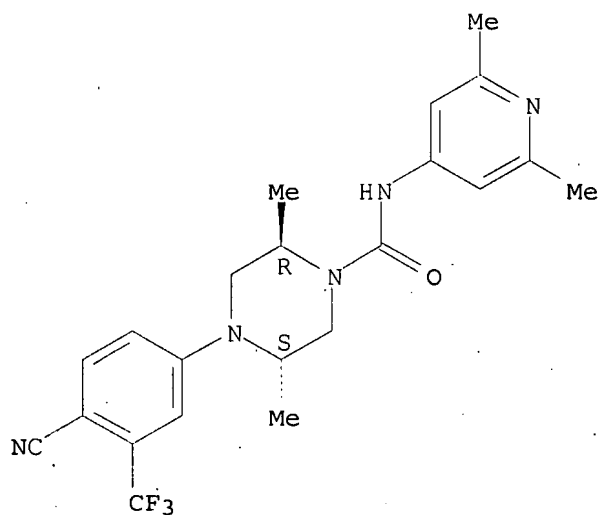
10/513699



RN 262295-31-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2,6-dimethyl-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

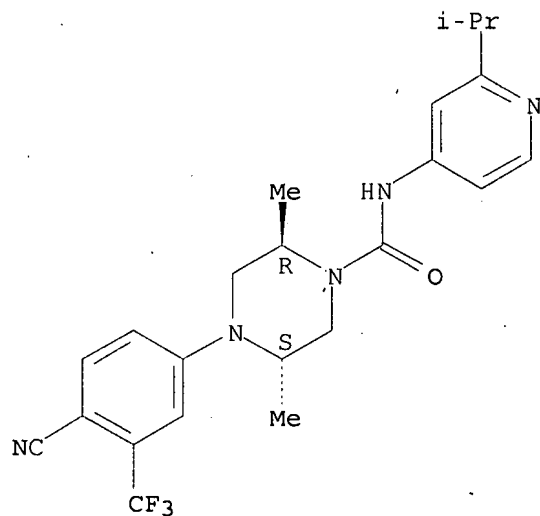


RN 262295-32-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(1-methylethyl)-4-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

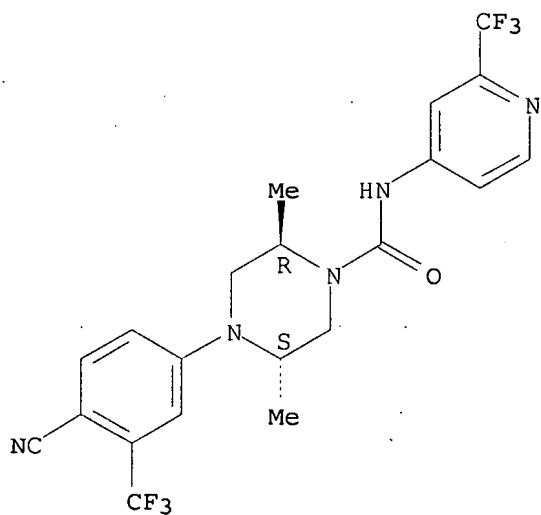
10/513699



RN 262295-33-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(trifluoromethyl)-4-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

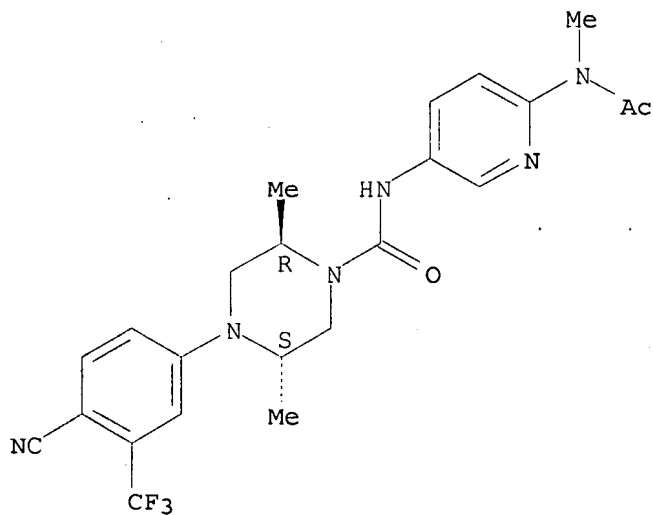


RN 262295-38-5 CAPLUS

CN 1-Piperazinecarboxamide, N-[6-(acetylmethylamino)-3-pyridinyl]-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

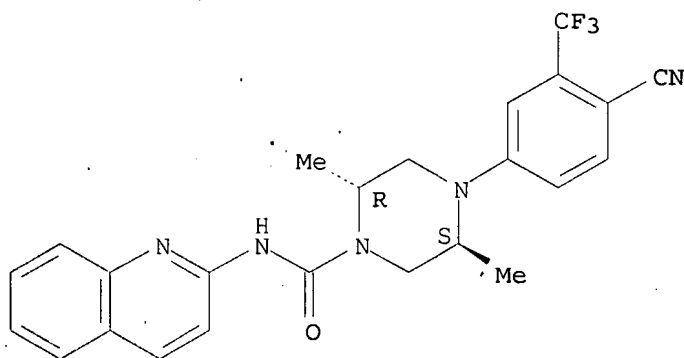
10/513699



RN 262295-39-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-2-quinolinyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

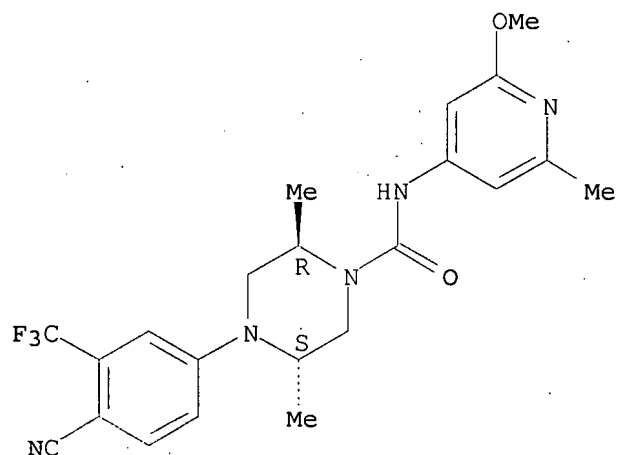


RN 262295-41-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-methoxy-6-methyl-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

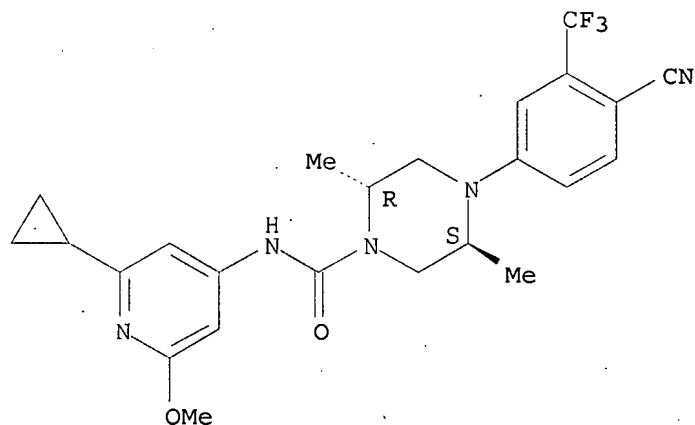
10/513699



RN 262295-42-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-cyclopropyl-6-methoxy-4-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

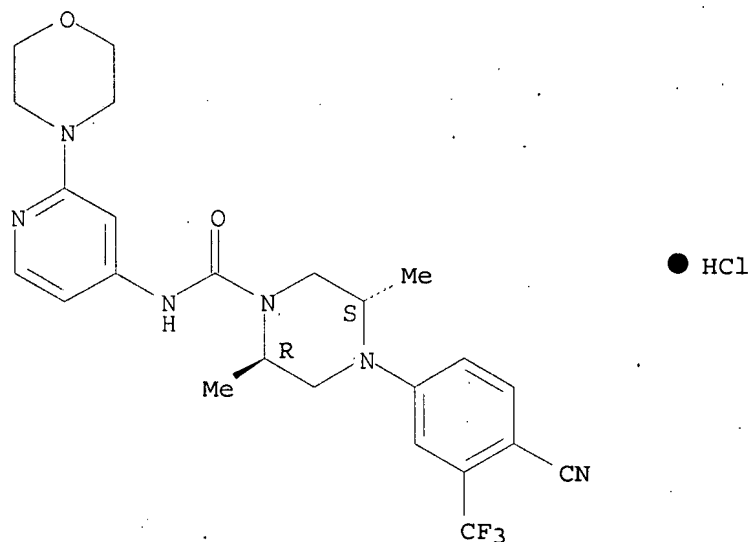


RN 262295-43-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(4-morpholinyl)-4-pyridinyl]-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

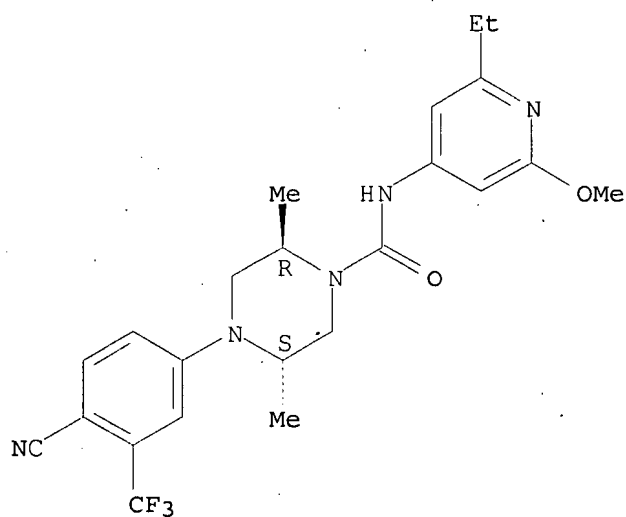
10/513699



RN 262295-44-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-ethyl-6-methoxy-4-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 262295-46-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-[2-(4-morpholinyl)ethoxy]-4-pyridinyl]-, dihydrochloride, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

C[C@H]1CN(C2=CC=C(C=C2)C(F)(F)F)SC1C(=O)Nc3cc(OCCN4CCOCC4)ncn3

● 2 HCl

CN 1-Piperazinecarboxamide, N-(2-acetyl-4-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

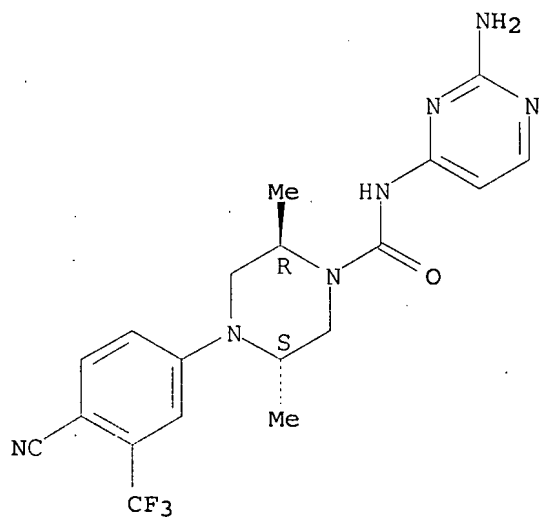
Chemical structure of a substituted piperazine derivative. The piperazine ring is substituted with a 4-cyano-3-(trifluoromethyl)phenyl group (labeled NC and CF₃) and a 4-acetylpyridin-2-ylmethyl group (labeled HN-C(=O)-). The piperazine ring also has two methyl groups (labeled Me) at the 2 and 5 positions. The piperazine ring is labeled with R and S at the 3 and 4 positions respectively.

CN 1-Piperazinecarboxamide, N-(2-amino-4-pyrimidinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

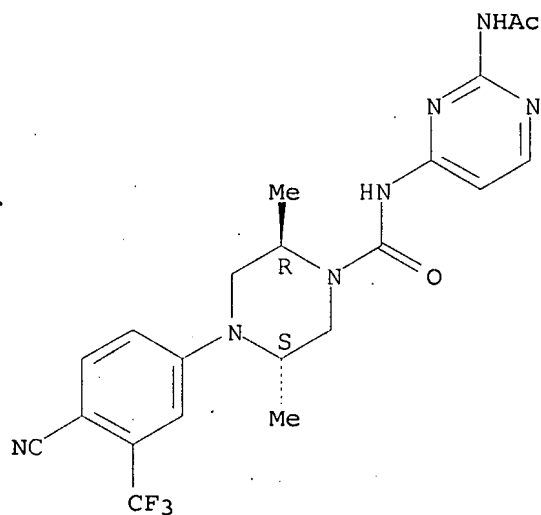
10/513699



RN 262295-49-8 CAPLUS

CN 1-Piperazinecarboxamide, N-[2-(acetylamino)-4-pyrimidinyl]-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

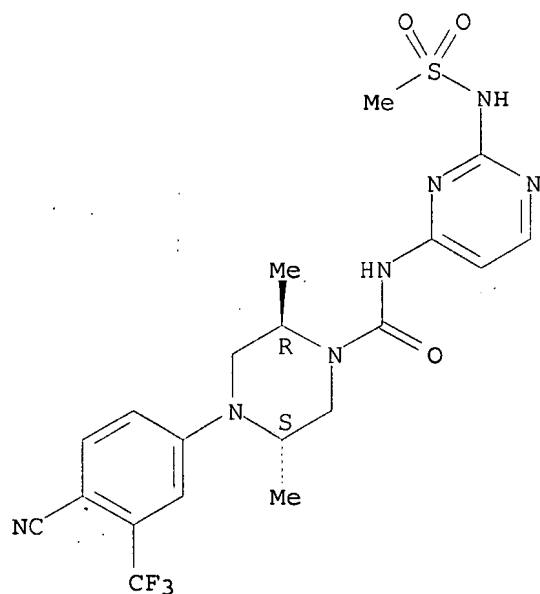


RN 262295-50-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-[(methylsulfonyl)amino]-4-pyrimidinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

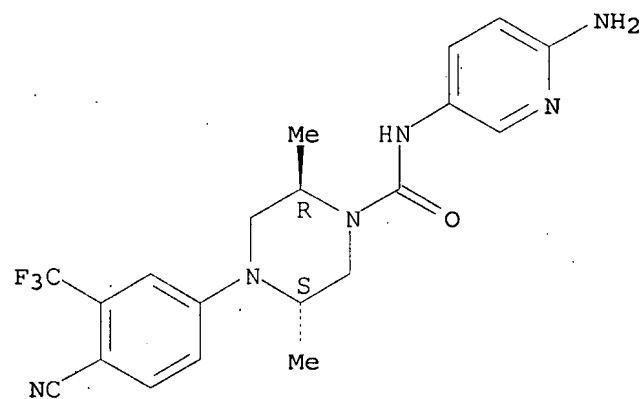
10/513699



RN 262295-52-3 CAPLUS

CN 1-Piperazinecarboxamide, N-(6-amino-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

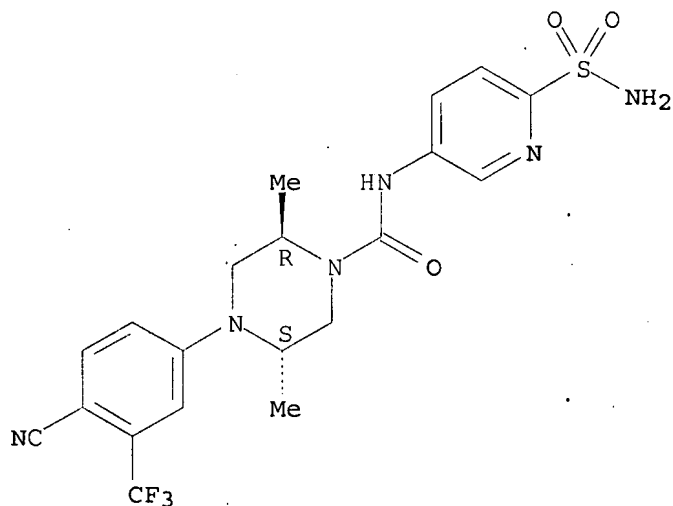


RN 262295-53-4 CAPLUS

CN 1-Piperazinecarboxamide, N-[6-(aminosulfonyl)-3-pyridinyl]-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

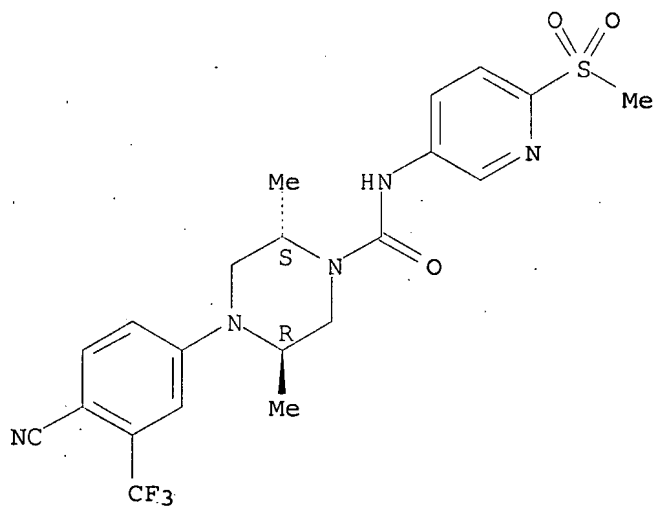
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RN 262296-09-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(methylsulfonyl)-3-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

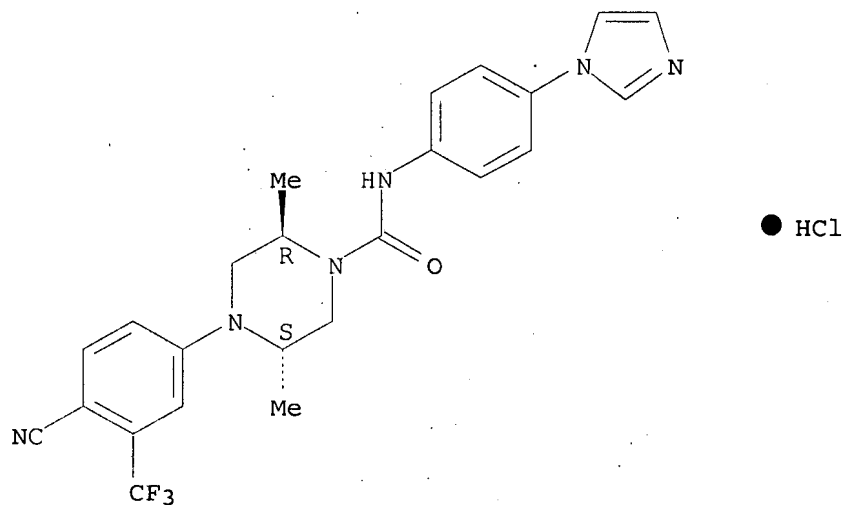


RN 375360-12-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-[4-(1H-imidazol-1-yl)phenyl]-2,5-dimethyl-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

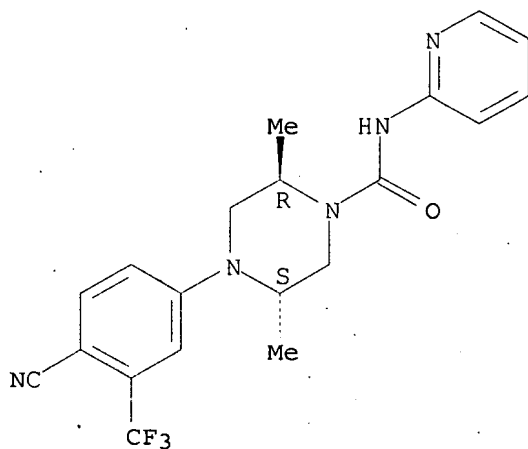
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RN 375360-32-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-2-pyridinyl-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

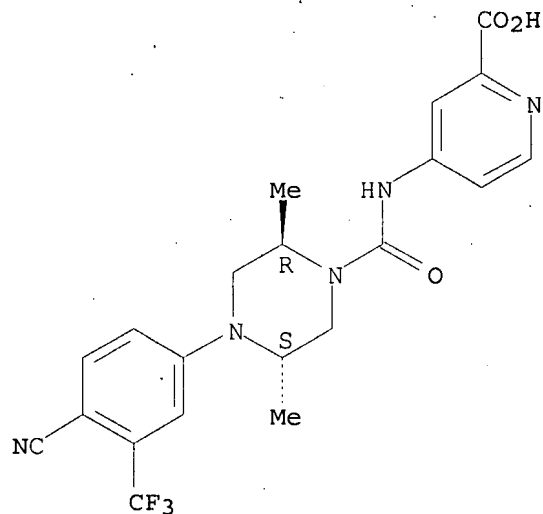


RN 375361-00-5 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

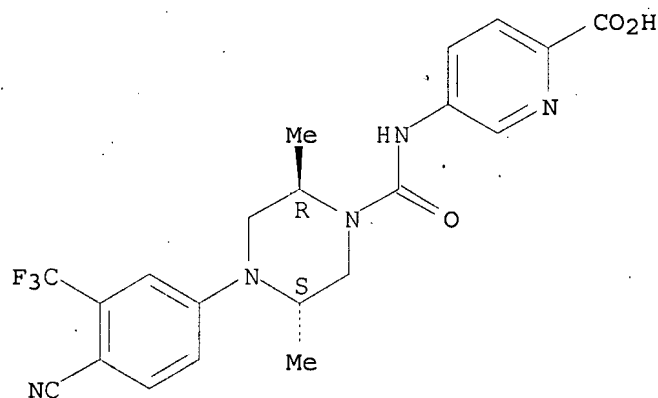
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RN 375361-06-1 CAPLUS

CN 2-Pyridinecarboxylic acid, 5-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino] - (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

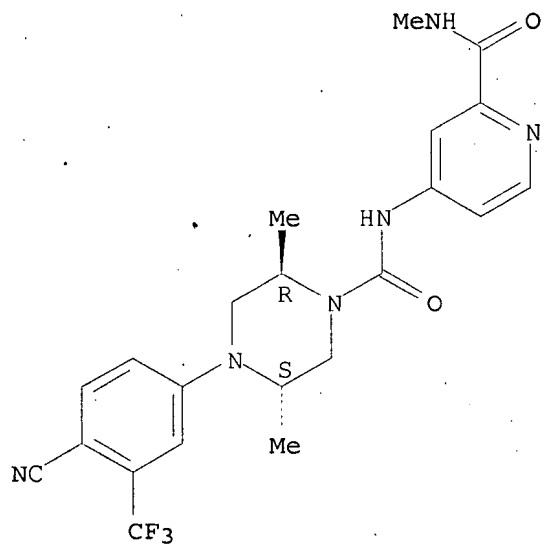


RN 375361-09-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-[(methylamino)carbonyl]-4-pyridinyl] -, (2R,5S) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

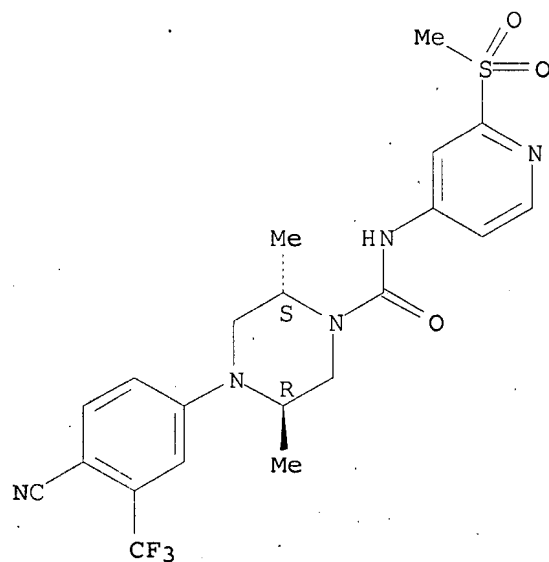
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RN 375361-31-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(methylsulfonyl)-4-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry..

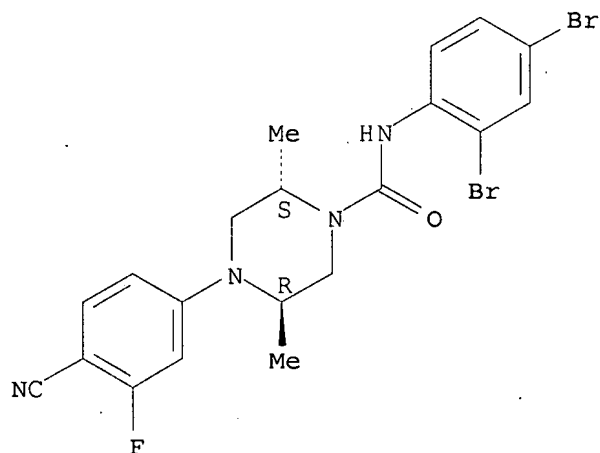


RN 375361-42-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluorophenyl)-N-(2,4-dibromophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

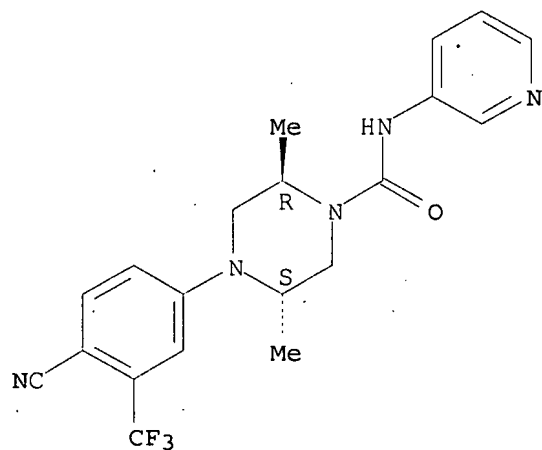
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RN 375361-71-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-3-pyridinyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

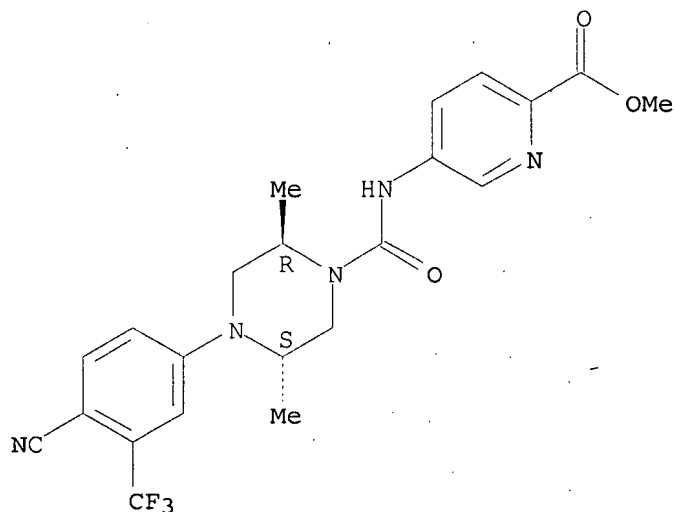


RN 375362-01-9 CAPLUS

CN 2-Pyridinecarboxylic acid, 5-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

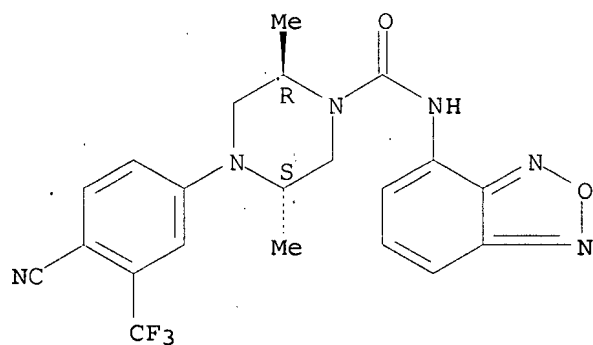
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RN 375362-08-6 CAPLUS

CN 1-Piperazinecarboxamide, N-2,1,3-benzoxadiazol-4-yl-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

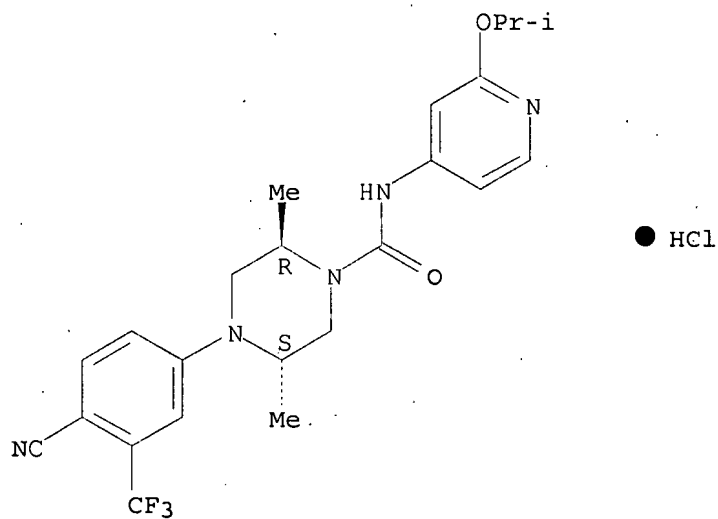


RN 375362-19-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(1-methylethoxy)-4-pyridinyl]-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

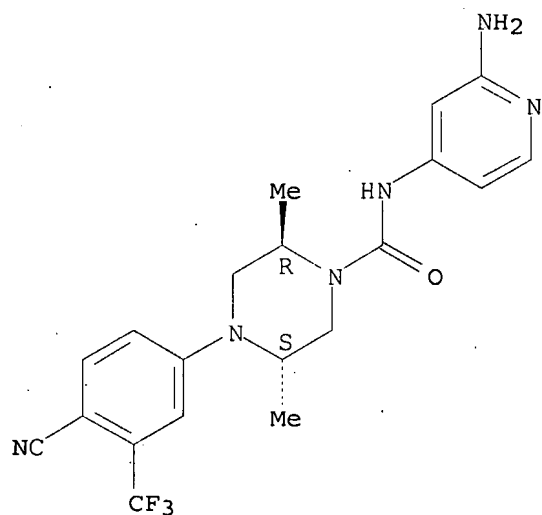
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RN 375362-32-6 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-amino-4-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

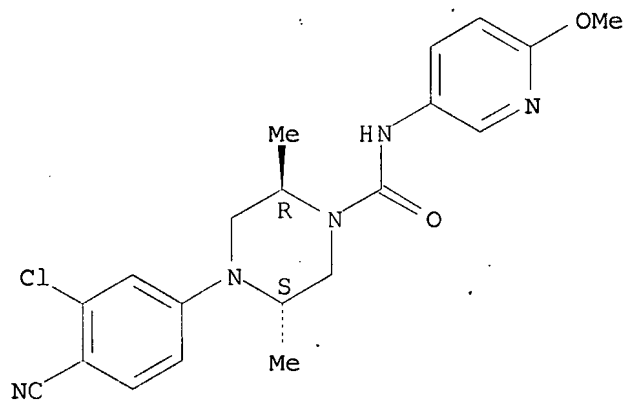


RN 375362-39-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-N-(6-methoxy-3-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

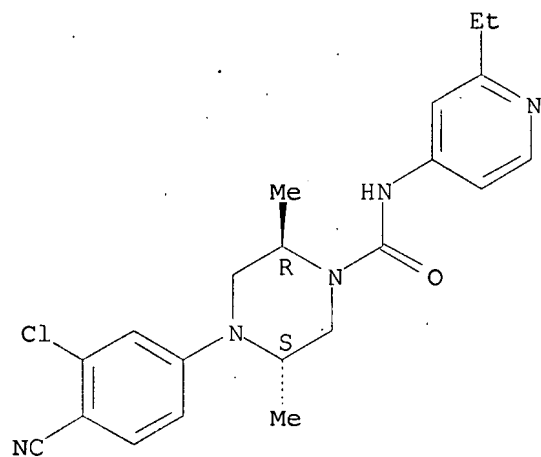
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RN 375362-42-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-N-(2-ethyl-4-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

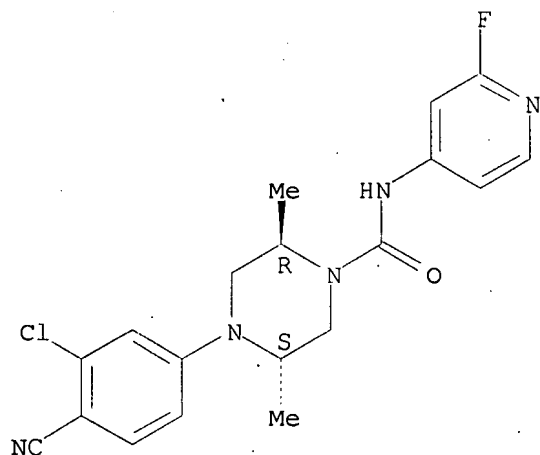


RN 375362-45-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-N-(2-fluoro-4-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

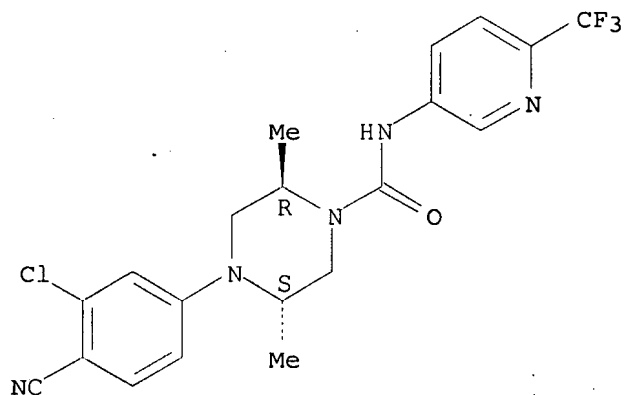
10/513699



RN 375362-48-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

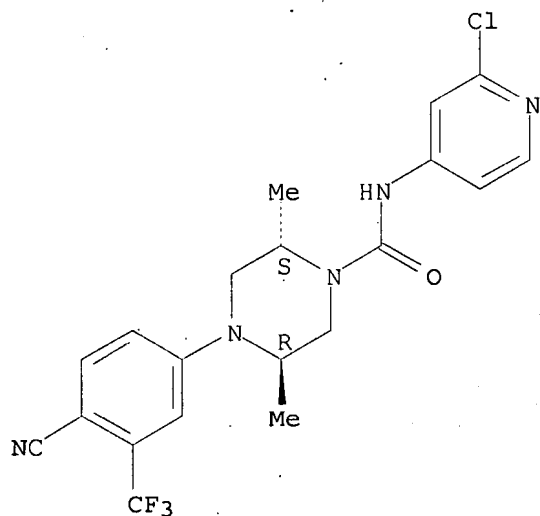


RN 375366-52-2 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-chloro-4-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2S,5R)- (9CI) (CA INDEX NAME)

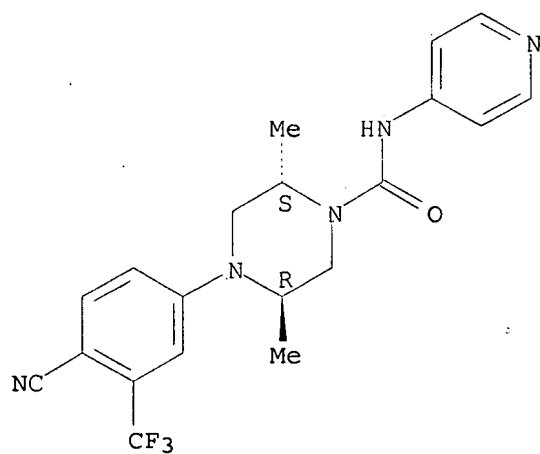
Absolute stereochemistry.

10/513699



RN 375366-54-4 CAPLUS
CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-4-pyridinyl-, monohydrochloride, (2S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

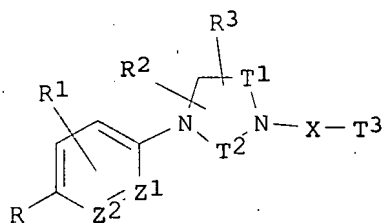
L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:210118 CAPLUS
DOCUMENT NUMBER: 132:237107
TITLE: Preparation of piperazino-substituted cyanophenyl derivatives as antiandrogen agents
INVENTOR(S): Taniguchi, Nobuaki; Kinoyama, Isao; Kamikubo, Takashi; Toyoshima, Akira; Samizu, Kiyohiro; Kawaminami, Eiji; Imamura, Masakazu; Moritomo, Hiroyuki; Matsuhisa, Akira; Hirano, Masaaki; Miyazaki, Yoji; Nozawa,

<12/04/2007>

Erich Leese

Eisuke; Okada, Minoru; Koutoku, Hiroshi; Ohta, Mitsuki
 PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan; et al.
 SOURCE: PCT Int. Appl., 65 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000017163	A1	20000330	WO 1999-JP5149	19990921
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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GI				



AB The title compds. I [T1 = (CH₂)_n; T2 = (CH₂)_k; T3 = (NR₄Y)mR₅; R = cyano, etc.; R1 = H, halo, etc.; R2 - R4 = H, alkyl, etc.; R5 = alkyl, etc.; k, n = 1 - 3; m = 0 or 1; X = CO, etc.; Z1, Z2 = CH, N; a proviso is given; Y = alkylene, etc.] are prepared These derivs. exhibit antiandrogen activities

and are therefore useful in the prevention or treatment of prostatic cancer, prostatic hypertrophy and so forth. In an in vitro assay for inhibition of androgen binding to androgen receptors, (2R,5S)-N-(2-bromo-4-pyridyl)-4-(4-cyano-3-trifluoromethylphenyl)-2,5-dimethylpiperazine-1-carboxamide showed the K_i value of 7.5 nM.

IT 262293-89-0P 262293-91-4P 262293-92-5P
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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

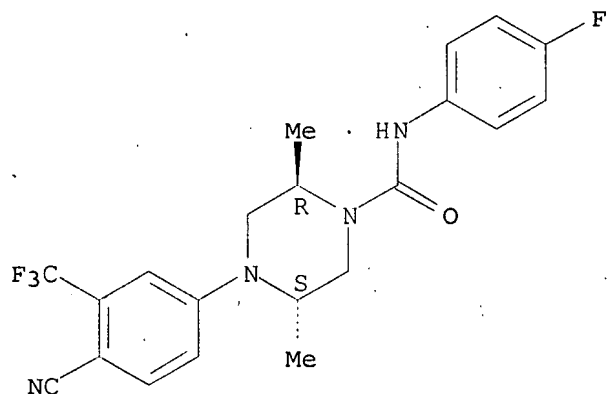
(preparation of piperazino-substituted cyanophenyl derivs. as antiandrogen agents)

RN 262293-89-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(4-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

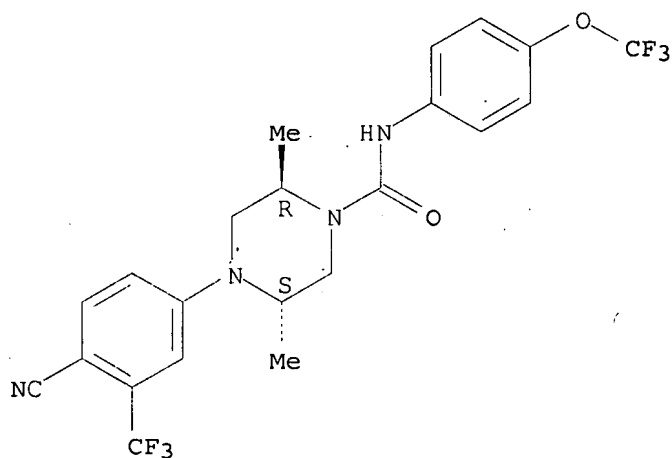
10/513699



RN 262293-91-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-(trifluoromethoxy)phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

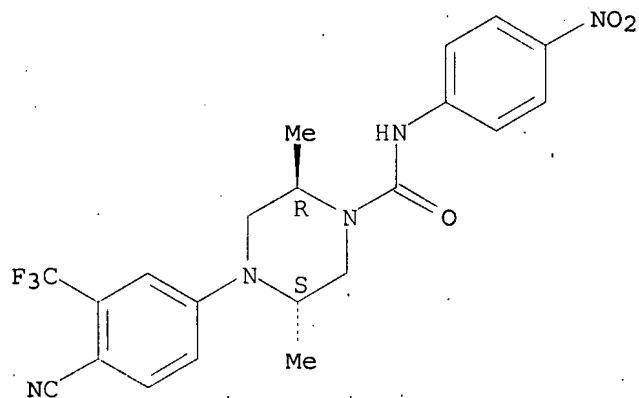


RN 262293-92-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(4-nitrophenyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

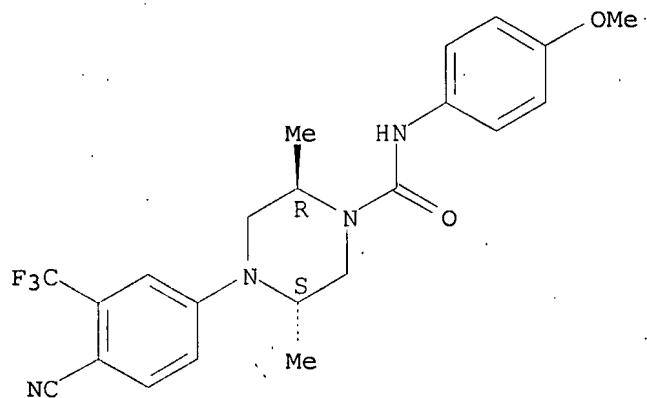
10/513699



RN 262293-93-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(4-methoxyphenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

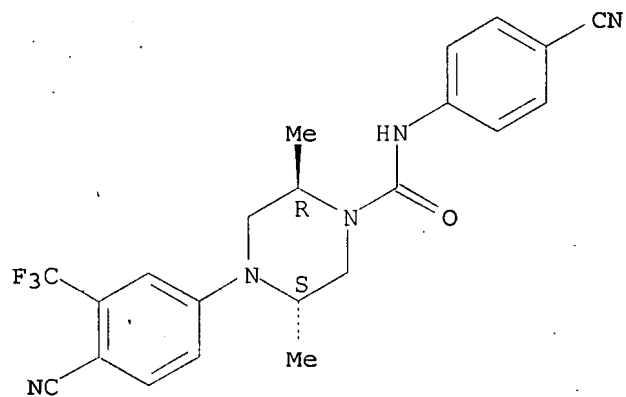
Relative stereochemistry.



RN 262293-94-7 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-cyanophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



<12/04/2007>

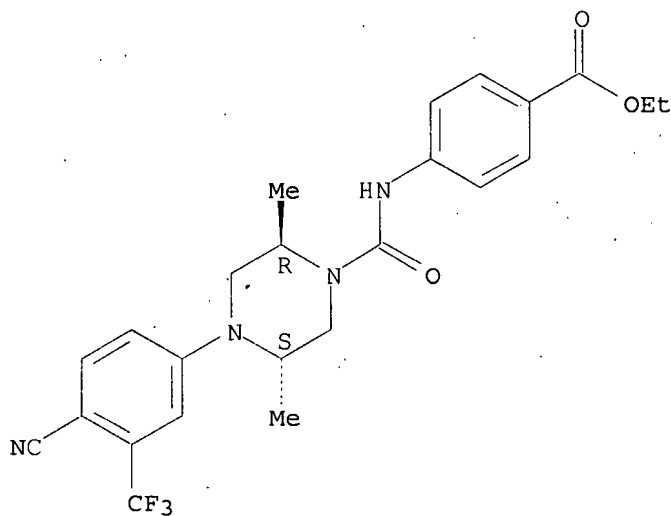
Erich Leese

10/513699

RN 262293-95-8 CAPLUS

CN Benzoic acid, 4-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, ethyl ester, rel- (9CI) (CA INDEX NAME)

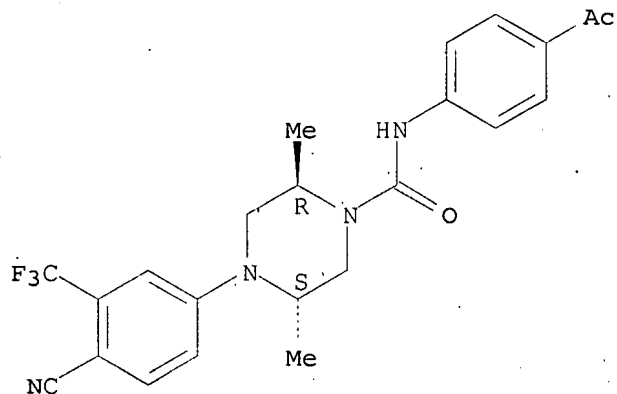
Relative stereochemistry.



RN 262293-96-9 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-acetylphenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

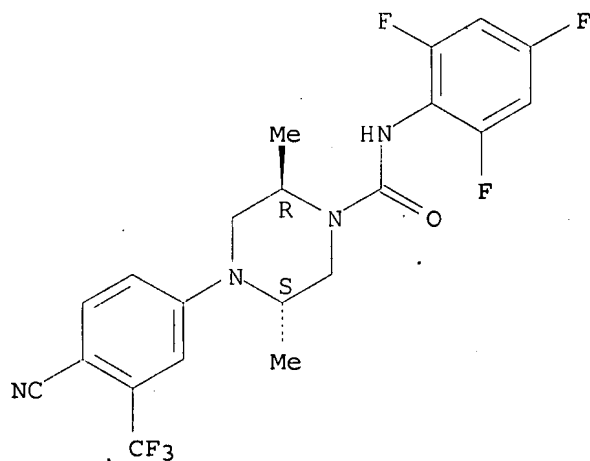


RN 262293-97-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2,4,6-trifluorophenyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

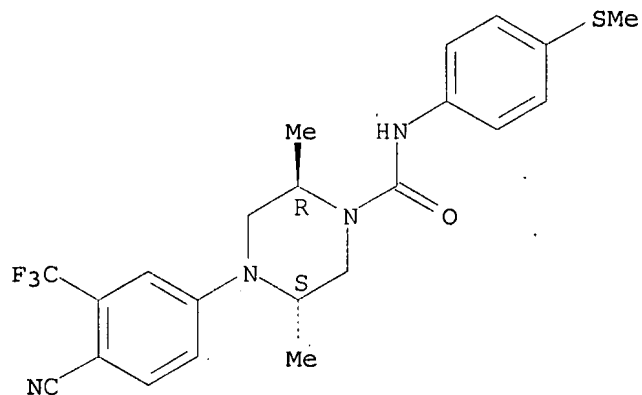
10/513699



RN 262293-98-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-(methylthio)phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

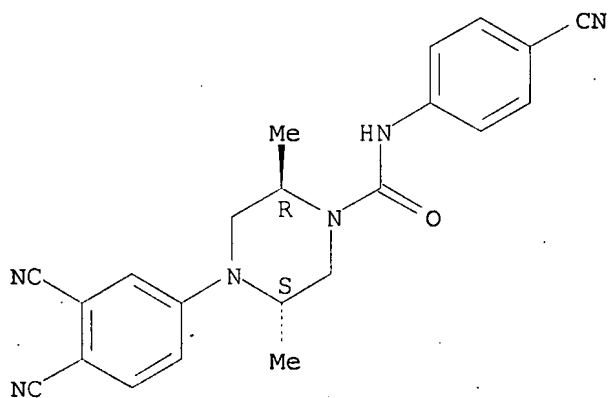


RN 262294-02-0 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-cyanophenyl)-4-(3,4-dicyanophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

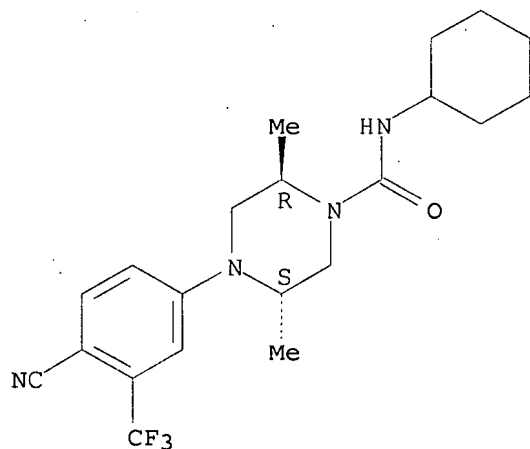
10/513699



RN 262294-08-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-cyclohexyl-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

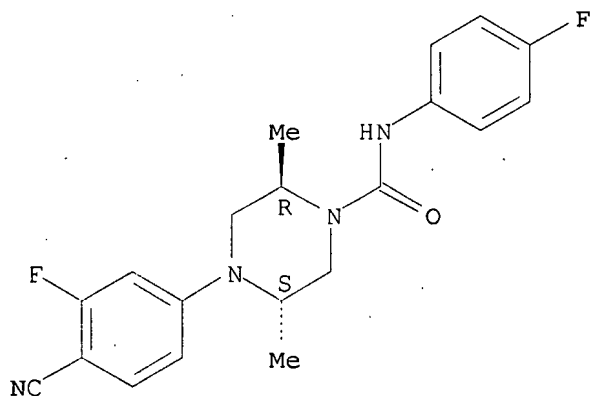


RN 262294-12-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-fluorophenyl)-N-(4-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

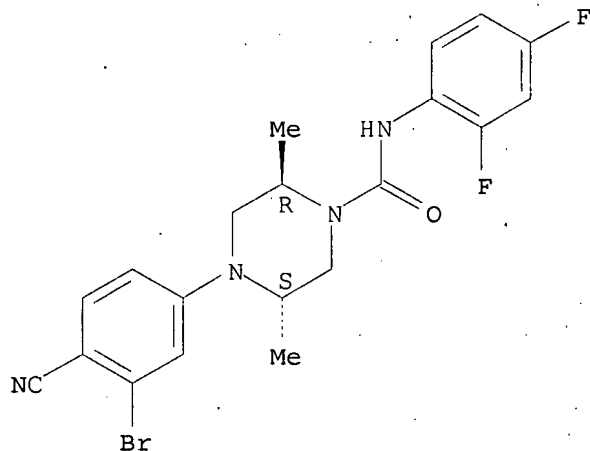
10/513699



RN 262294-13-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-bromo-4-cyanophenyl)-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

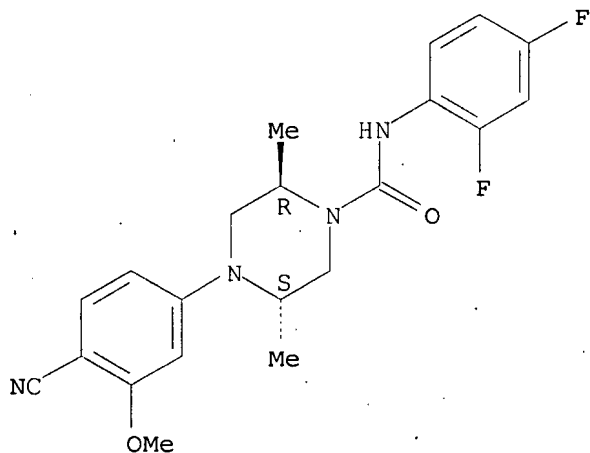


RN 262294-14-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methoxyphenyl)-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

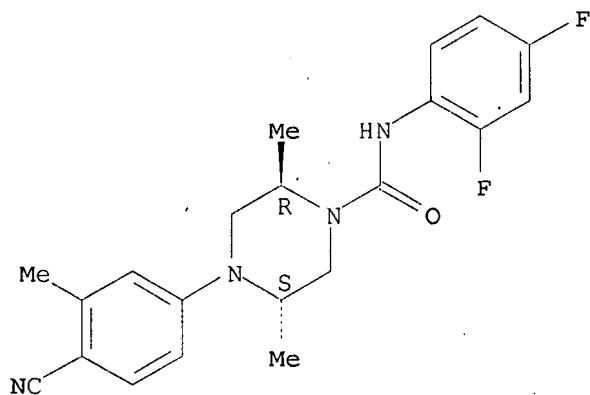
10/513699



RN 262294-15-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-(4-cyano-3-methylphenyl)-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

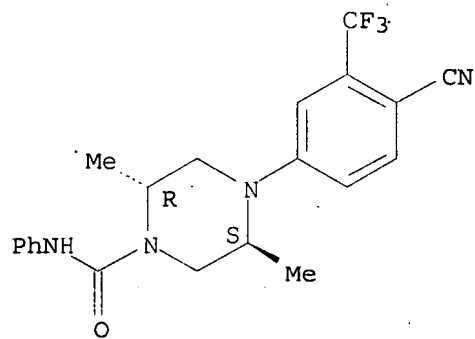
Relative stereochemistry.



RN 262294-21-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-phenyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



<12/04/2007>

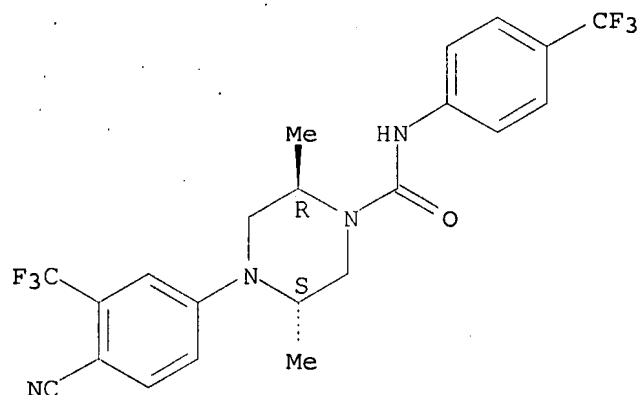
Erich Leese

10/513699

RN 262294-22-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-(trifluoromethyl)phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

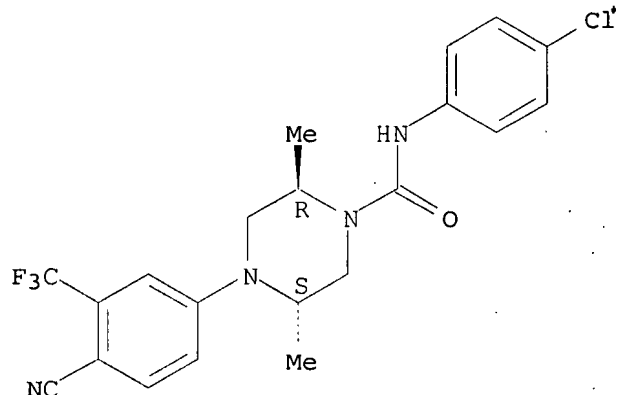
Relative stereochemistry.



RN 262294-23-5 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-chlorophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

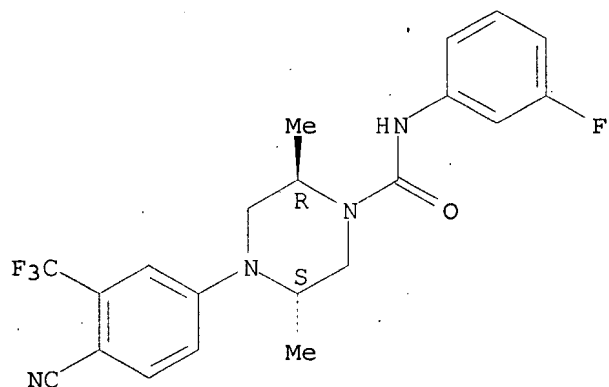


RN 262294-24-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(3-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

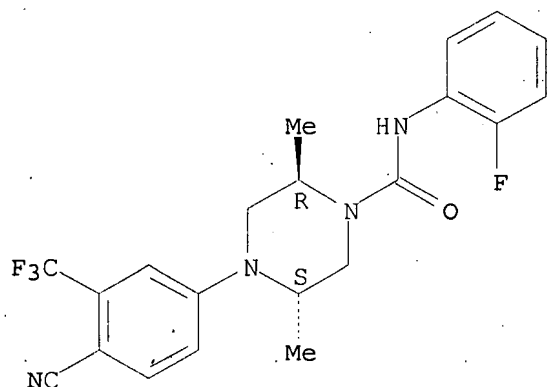
10/513699



RN 262294-25-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

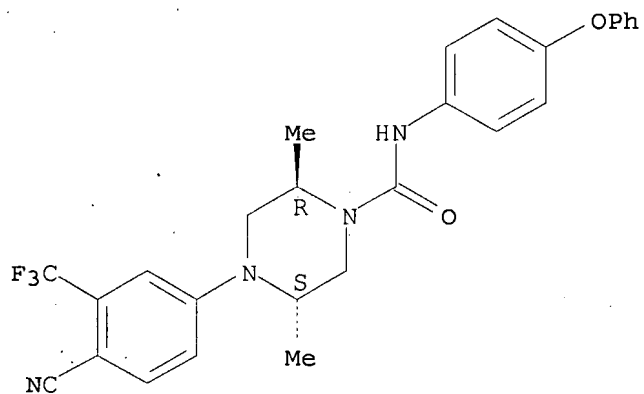
Relative stereochemistry.



RN 262294-27-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(4-phenoxyphenyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



<12/04/2007>

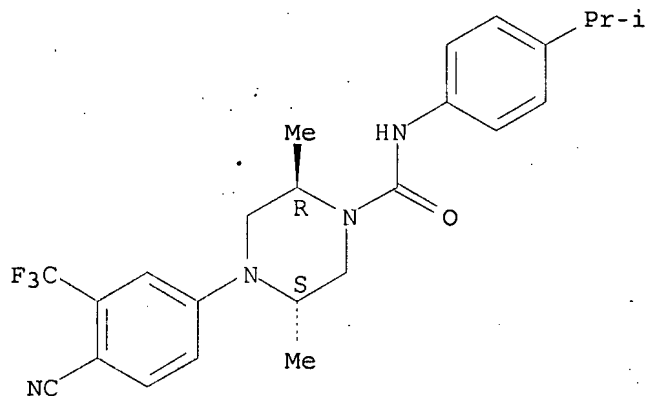
Erich Leese

10/513699

RN 262294-28-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-(1-methylethyl)phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

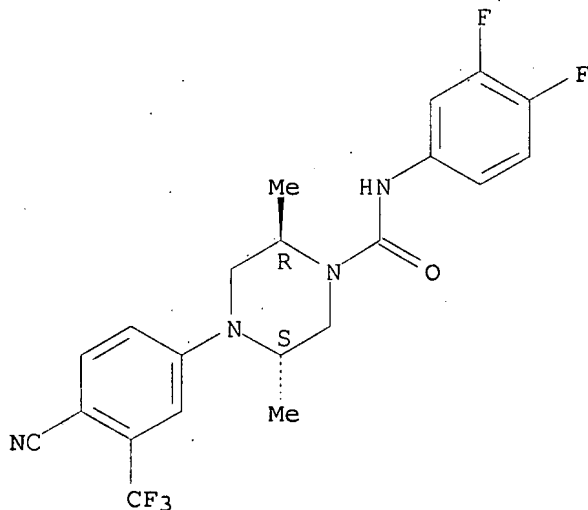
Relative stereochemistry.



RN 262294-29-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(3,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

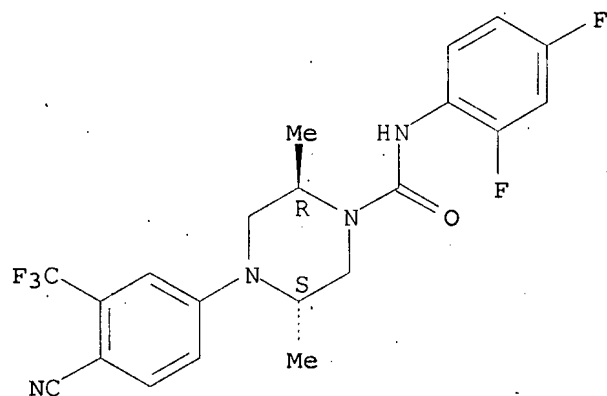


RN 262294-30-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

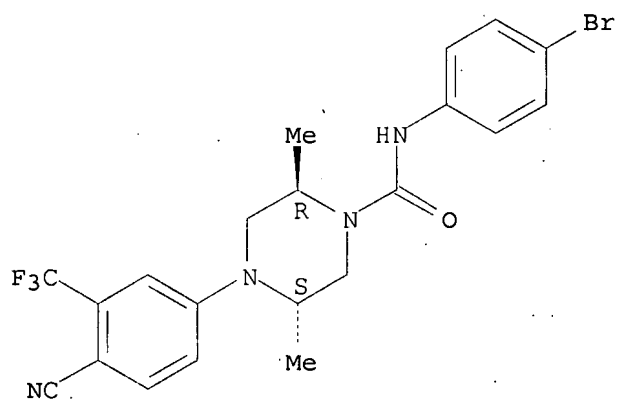
10/513699



RN 262294-31-5 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-bromophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

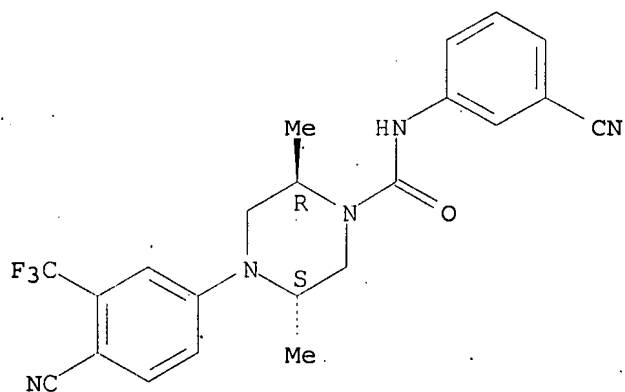


RN 262294-32-6 CAPLUS

CN 1-Piperazinecarboxamide, N-(3-cyanophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

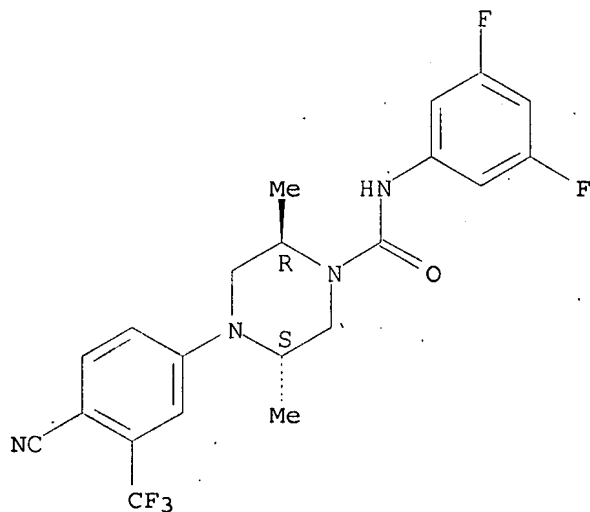
10/513699



RN 262294-34-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(3,5-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

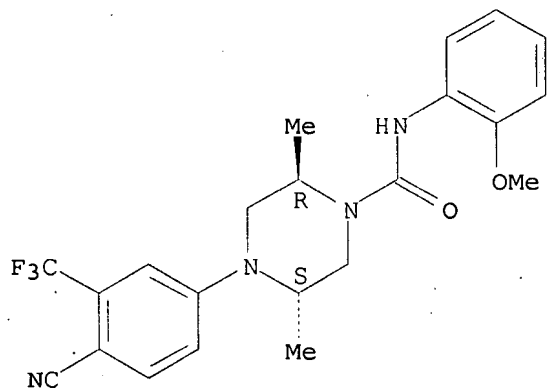


RN 262294-35-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-methoxyphenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

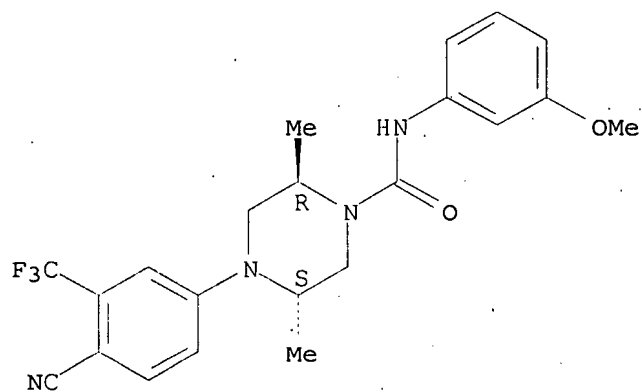
10/513699



RN 262294-36-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(3-methoxyphenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

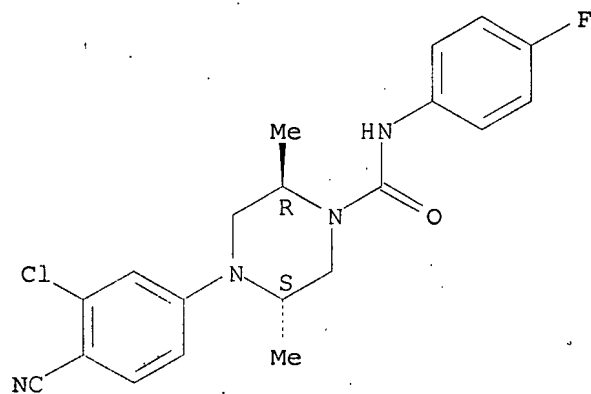
Relative stereochemistry.



RN 262294-37-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-N-(4-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



<12/04/2007>

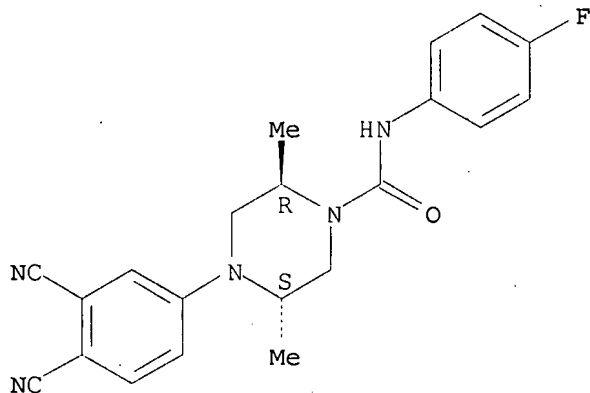
Erich Leese

10/513699

RN 262294-38-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3,4-dicyanophenyl)-N-(4-fluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

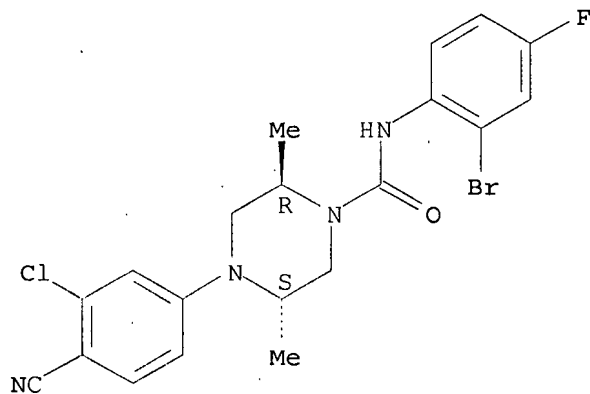
Relative stereochemistry.



RN 262294-42-8 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-bromo-4-fluorophenyl)-4-(3-chloro-4-cyanophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

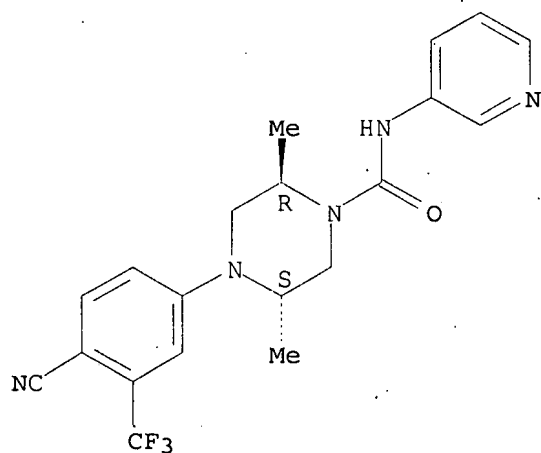


RN 262294-46-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-3-pyridinyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

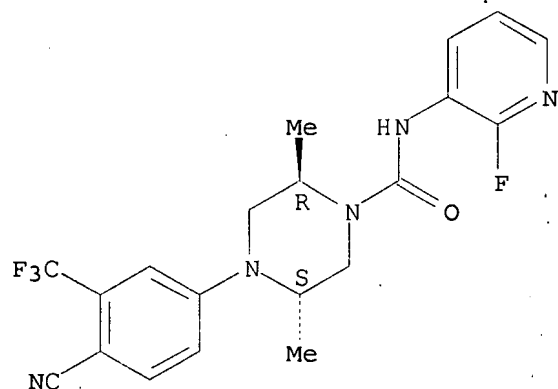
10/513699



RN 262294-47-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-fluoro-3-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

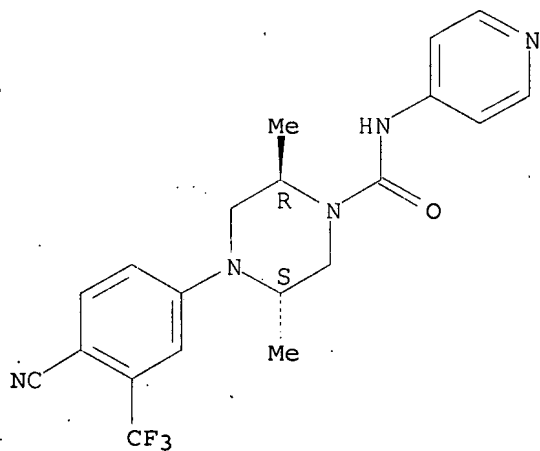


RN 262294-48-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-4-pyridinyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

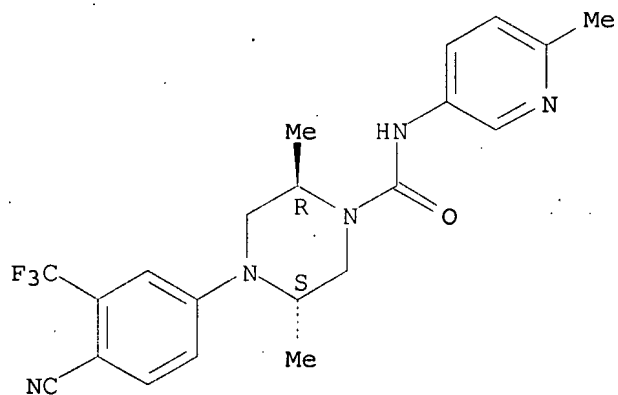
10/513699



RN 262294-49-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(6-methyl-3-pyridinyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

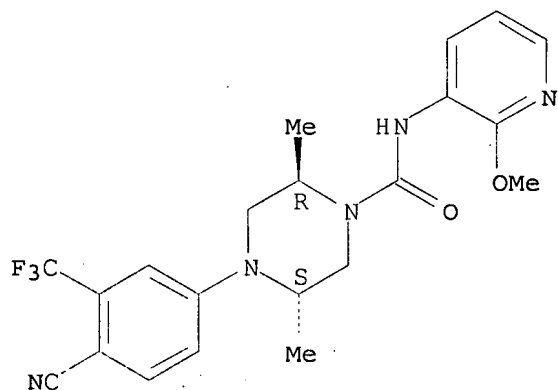


RN 262294-50-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-methoxy-3-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

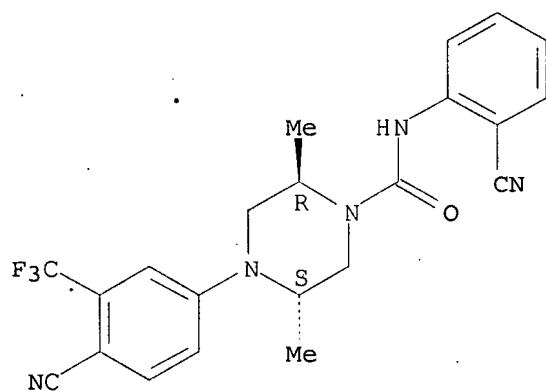
10/513699



RN 262294-51-9 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-cyanophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

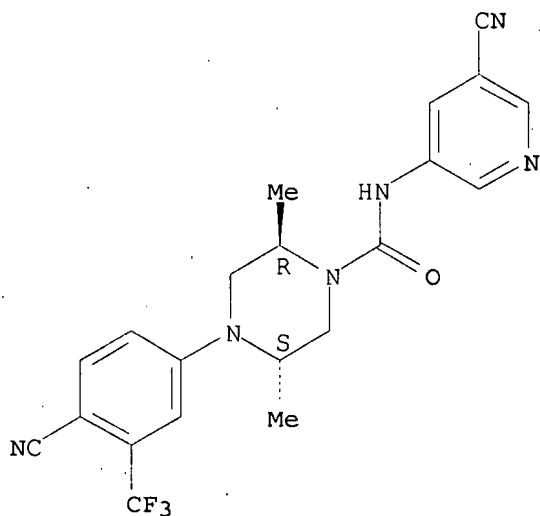


RN 262294-52-0 CAPLUS

CN 1-Piperazinecarboxamide, N-(5-cyano-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

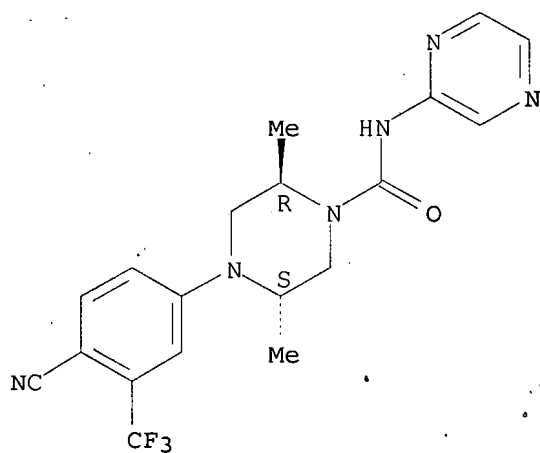
10/513699



RN 262294-55-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-pyrazinyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

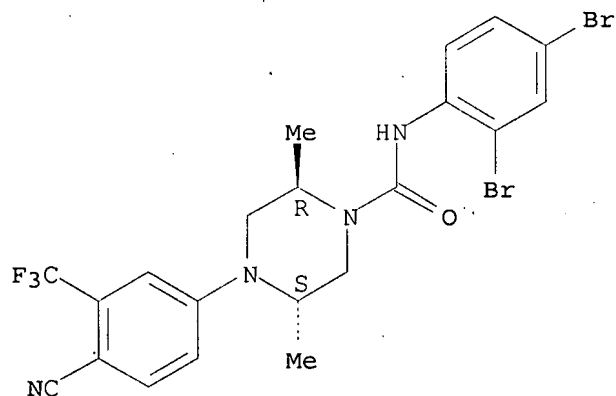


RN 262294-57-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2,4-dibromophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

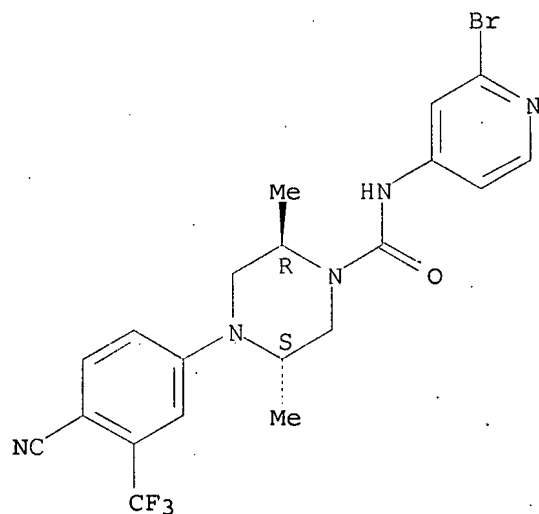
10/513699



RN 262294-61-1 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-bromo-4-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

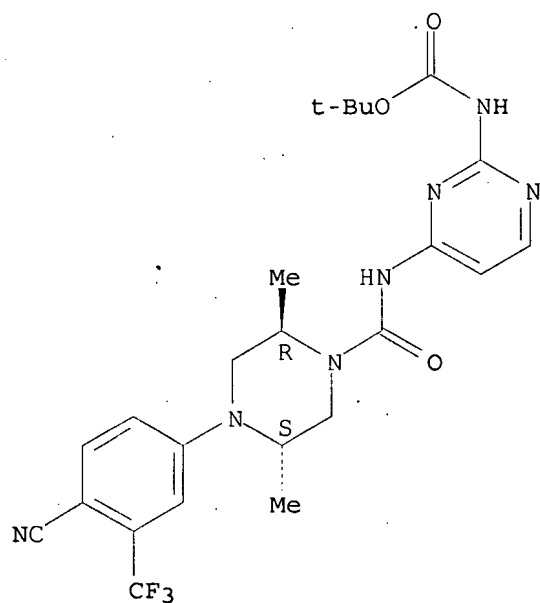


RN 262294-62-2 CAPLUS

CN Carbamic acid, [4-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-2-pyrimidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

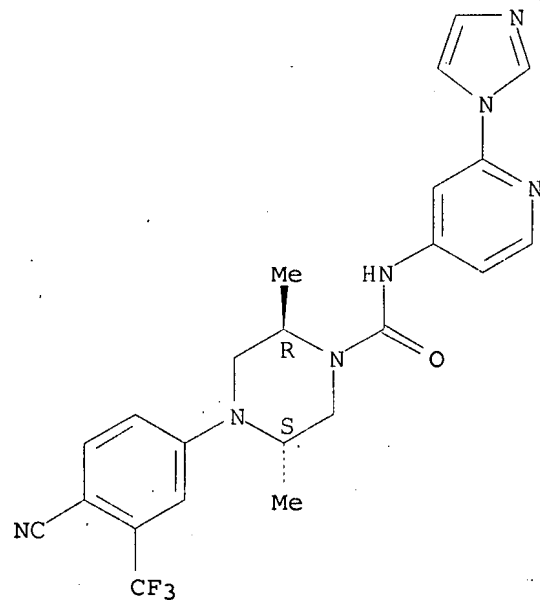
10/513699



RN 262294-63-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-[2-(1H-imidazol-1-yl)-4-pyridinyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

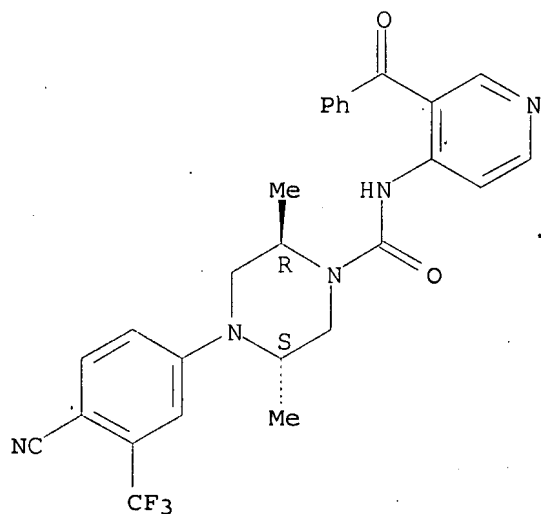


RN 262294-64-4 CAPLUS

CN 1-Piperazinecarboxamide, N-(3-benzoyl-4-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

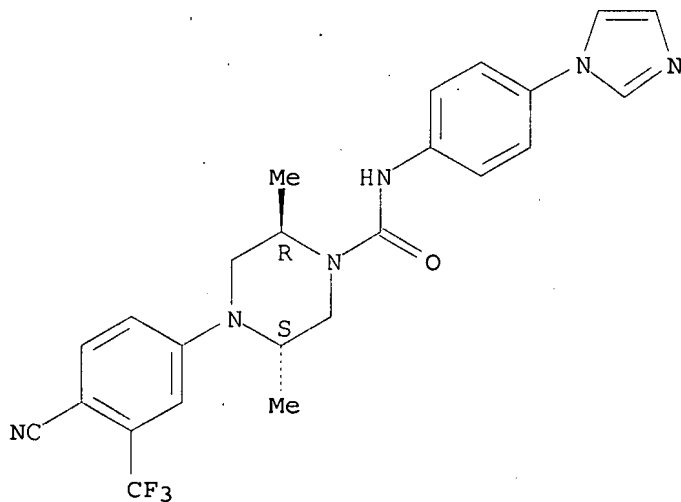
10/513699



RN 262294-66-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-[4-(1H-imidazol-1-yl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

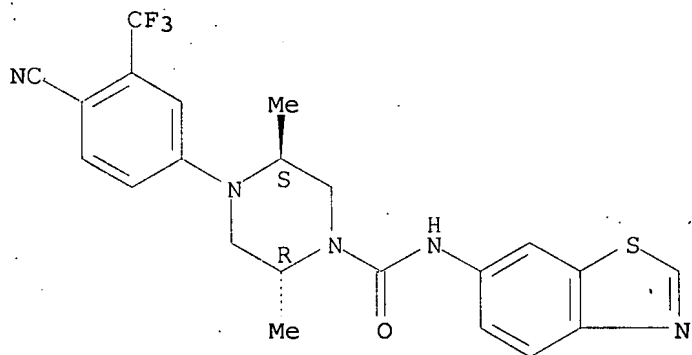


RN 262294-70-2 CAPLUS

CN 1-Piperazinecarboxamide, N-6-benzothiazolyl-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

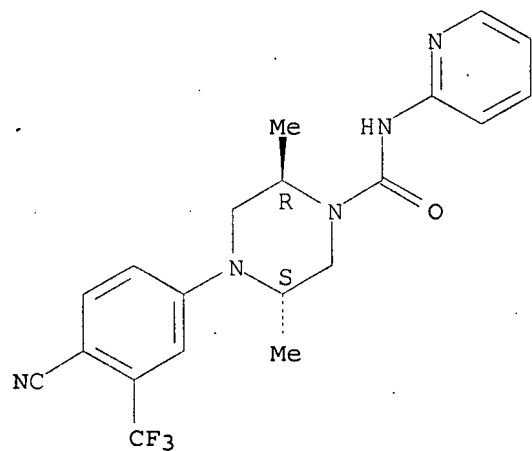
10/513699



RN 262294-72-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-2-pyridinyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

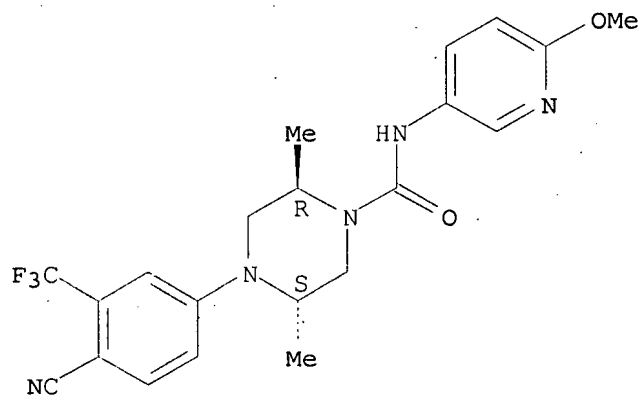
Relative stereochemistry.



RN 262294-73-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(6-methoxy-3-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



<12/04/2007>

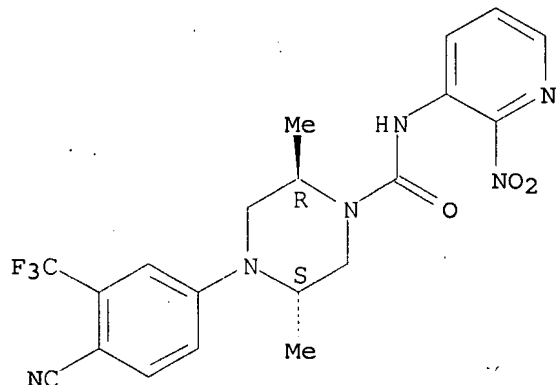
Erich Leese

10/513699

RN 262294-75-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2-nitro-3-pyridinyl)-, (2R,5S)-rel-. (9CI) (CA INDEX NAME)

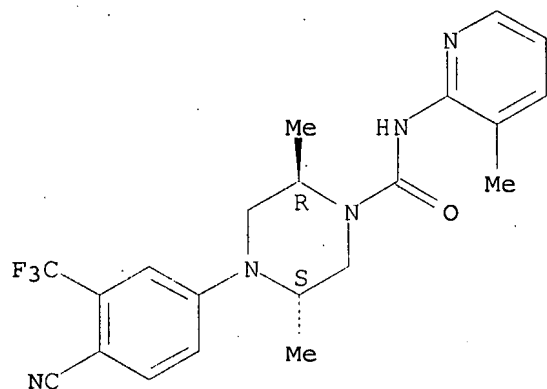
Relative stereochemistry.



RN 262294-76-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(3-methyl-2-pyridinyl)-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry..



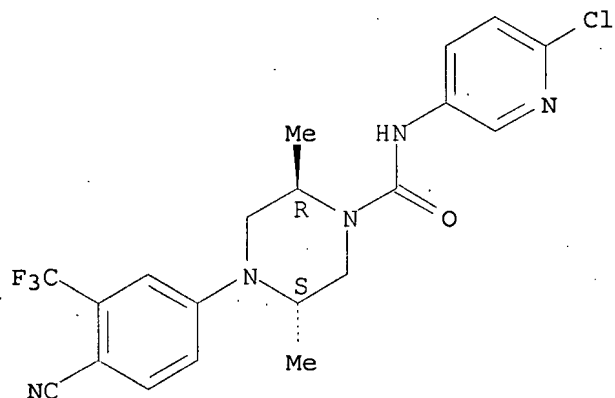
● HCl

RN 262294-83-7 CAPLUS

CN 1-Piperazinecarboxamide, N-(6-chloro-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

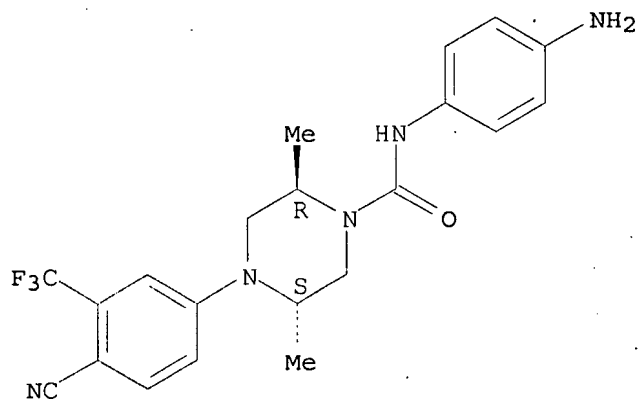
10/513699



RN 262294-90-6 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-aminophenyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

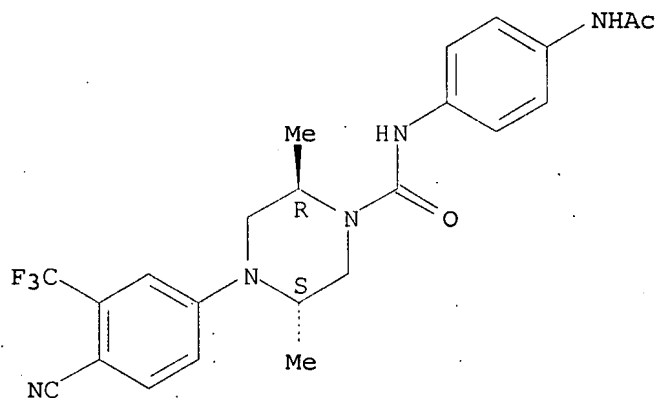


RN 262294-91-7 CAPLUS

CN 1-Piperazinecarboxamide, N-[4-(acetamino)phenyl]-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

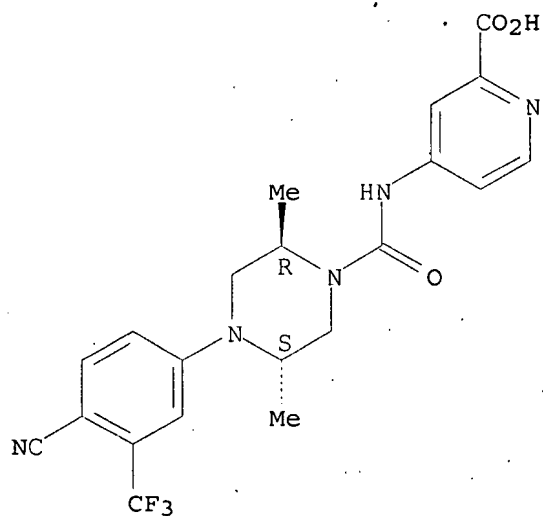
10/513699



RN 262294-92-8 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

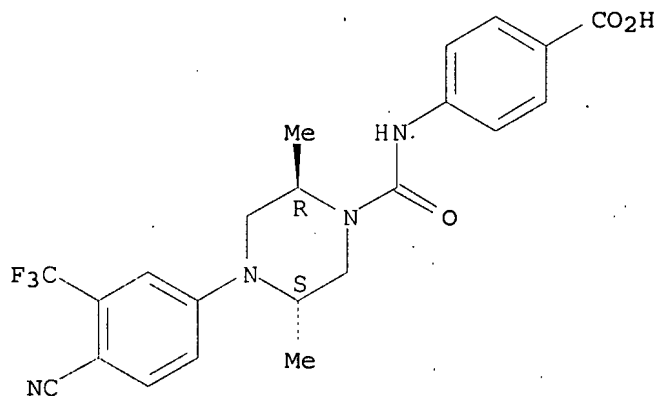


RN 262294-93-9 CAPLUS

CN Benzoic acid, 4-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

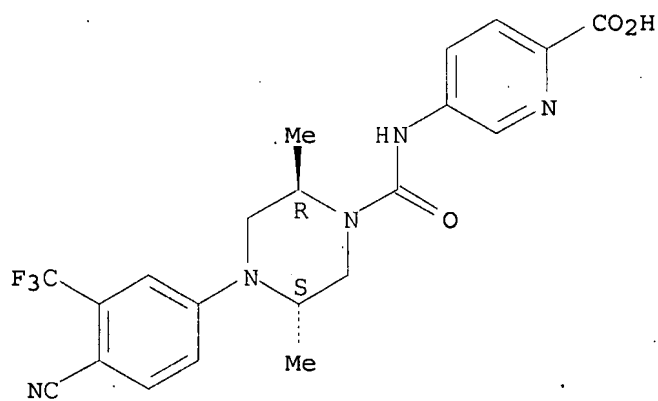
10/513699



RN 262294-94-0 CAPLUS

CN 2-Pyridinecarboxylic acid, 5-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

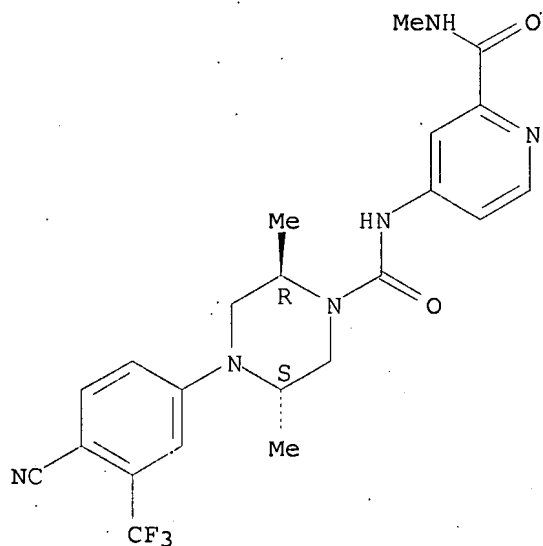


RN 262294-95-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-[(methylamino)carbonyl]-4-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

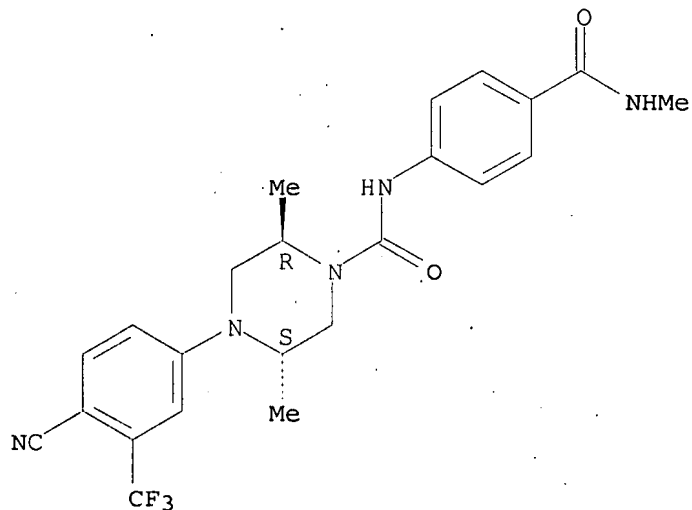
Relative stereochemistry.

10/513699



RN 262294-96-2 CAPLUS
CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-[(methylamino)carbonyl]phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

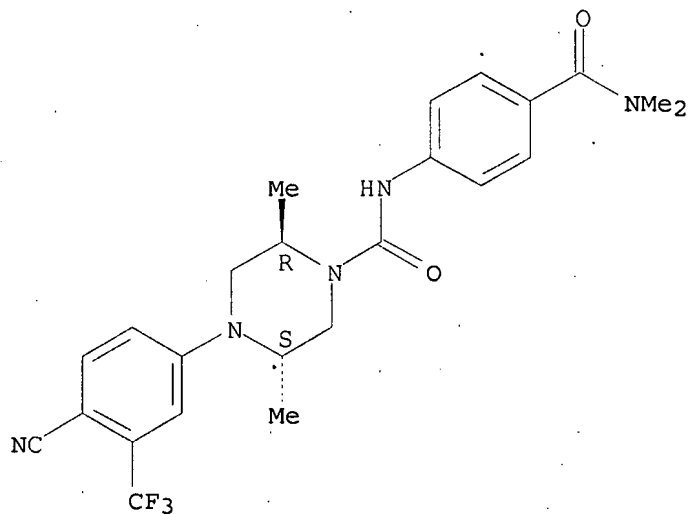
Relative stereochemistry.



RN 262294-97-3 CAPLUS
CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-[4-[(dimethylamino)carbonyl]phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

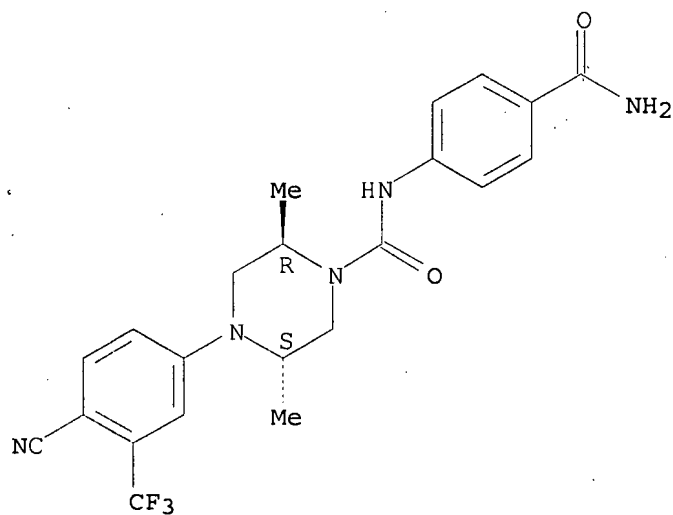
10/513699



RN 262294-98-4 CAPLUS

CN 1-Piperazinecarboxamide, N-[4-(aminocarbonyl)phenyl]-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

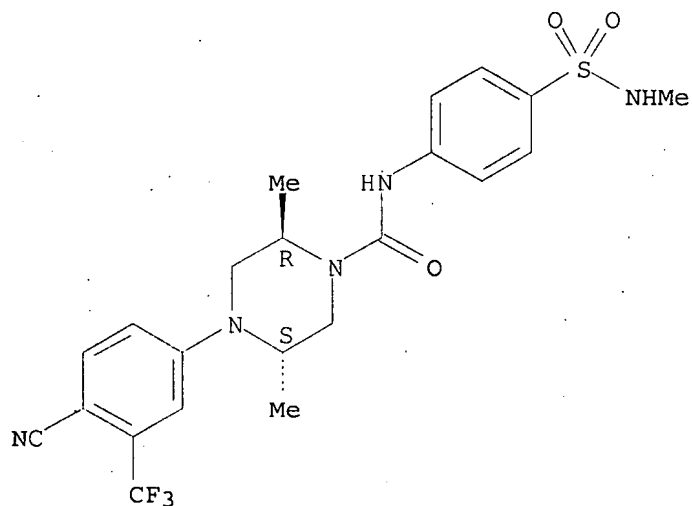


RN 262294-99-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-[(methylamino)sulfonyl]phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

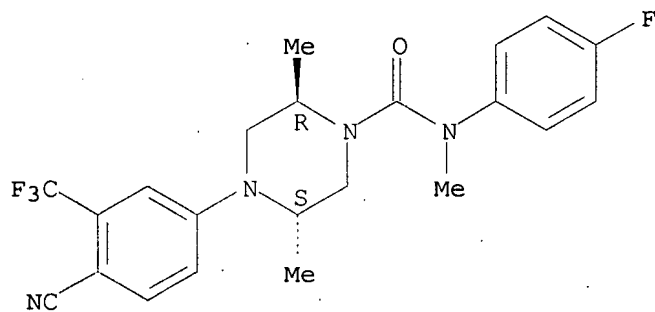
10/513699



RN 262295-00-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(4-fluorophenyl)-N,2,5-trimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

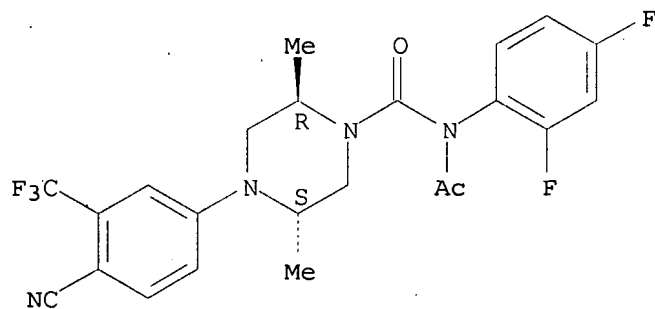
Relative stereochemistry.



RN 262295-01-2 CAPLUS

CN 1-Piperazinecarboxamide, N-acetyl-4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2,4-difluorophenyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 262295-04-5 CAPLUS

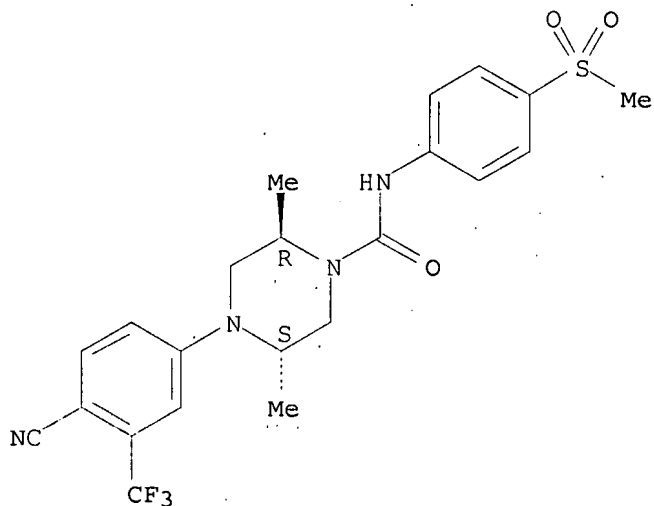
<12/04/2007>

Erich Leese

10/513699

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[4-(methylsulfonyl)phenyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

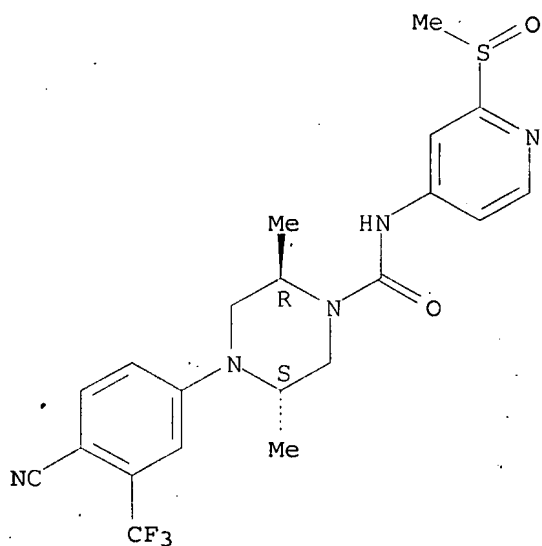
Relative stereochemistry.



RN 262295-05-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(methylsulfinyl)-4-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

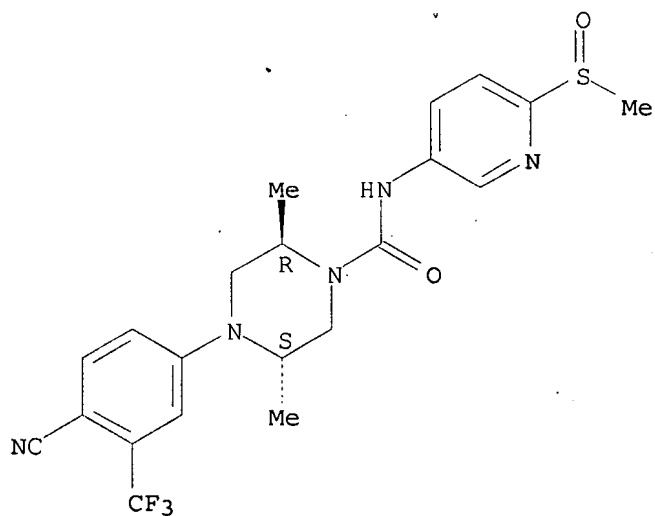


RN 262295-06-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(methylsulfinyl)-3-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

10/513699

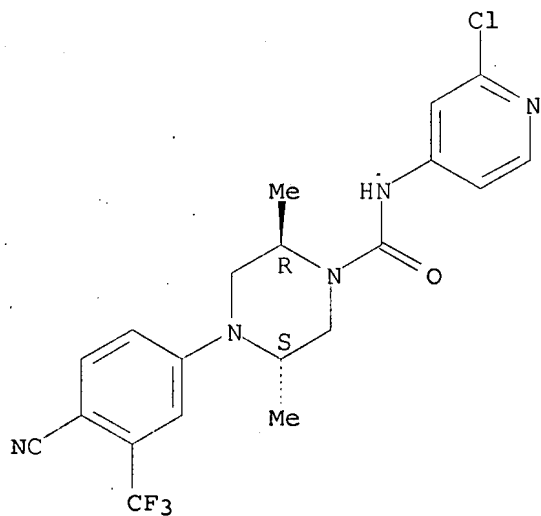
Relative stereochemistry.



RN 262295-08-9 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-chloro-4-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

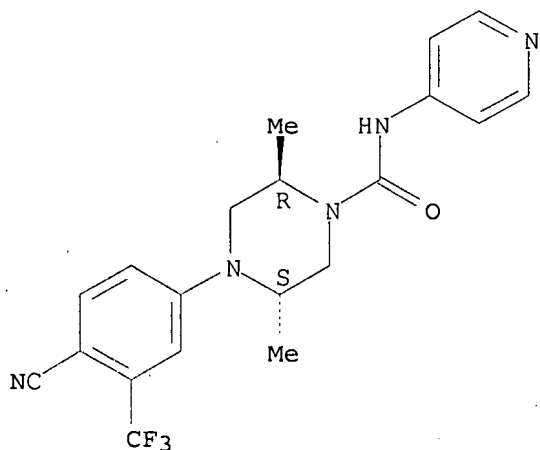


RN 262295-09-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-4-pyridinyl-, monohydrochloride, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10/513699

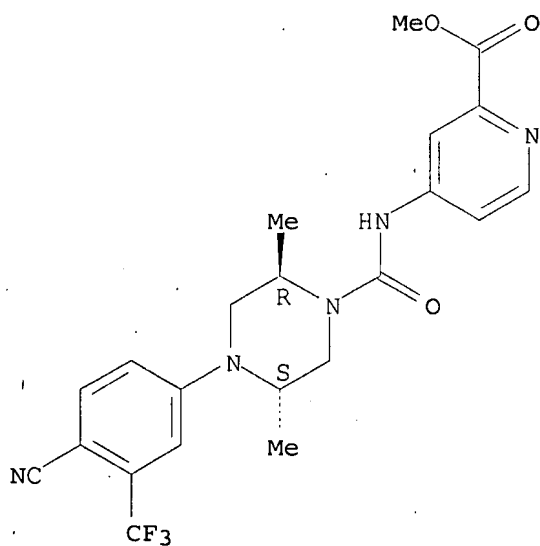


● HCl

RN 262295-10-3 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

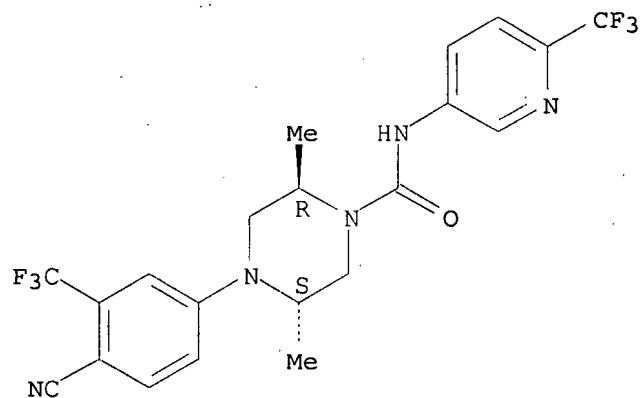


RN 262295-11-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(trifluoromethyl)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

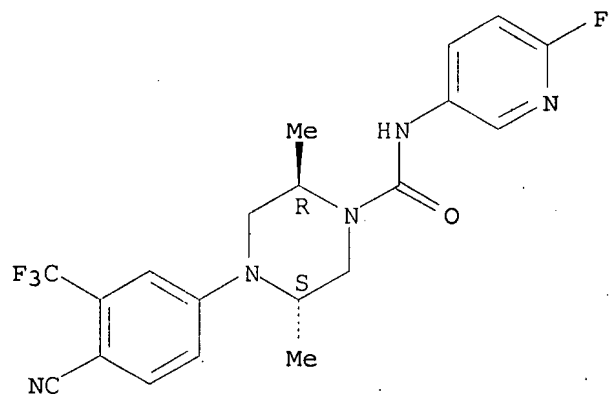
10/513699



RN 262295-12-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(6-fluoro-3-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI). (CA INDEX NAME)

Absolute stereochemistry.

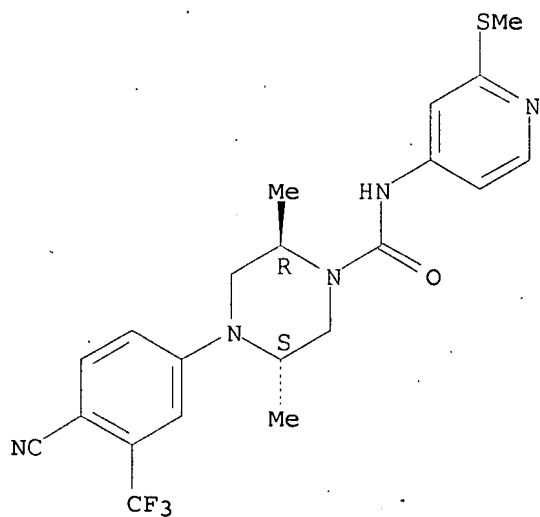


RN 262295-13-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(methylthio)-4-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

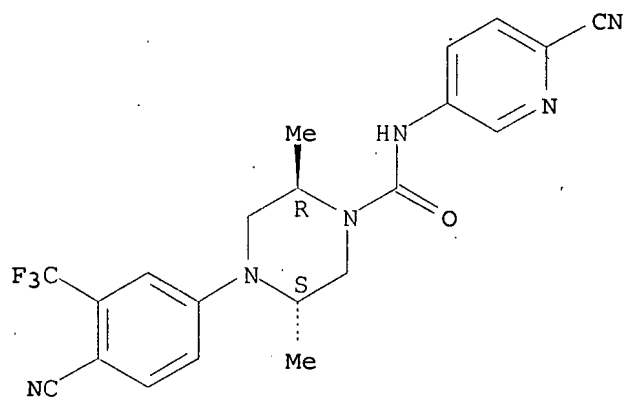
10/513699



RN 262295-14-7 CAPLUS

CN 1-Piperazinecarboxamide, N-(6-cyano-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

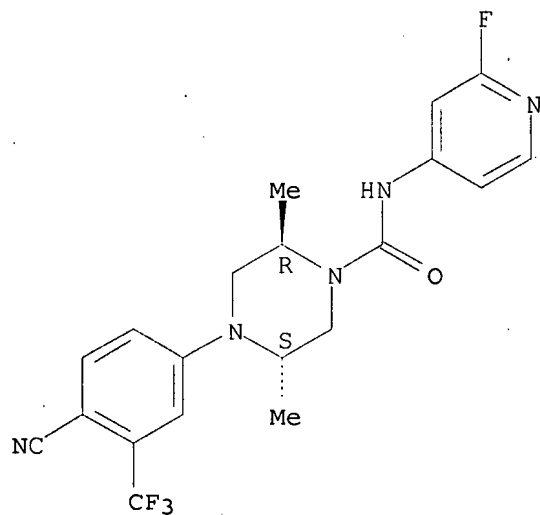


RN 262295-15-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-fluoro-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

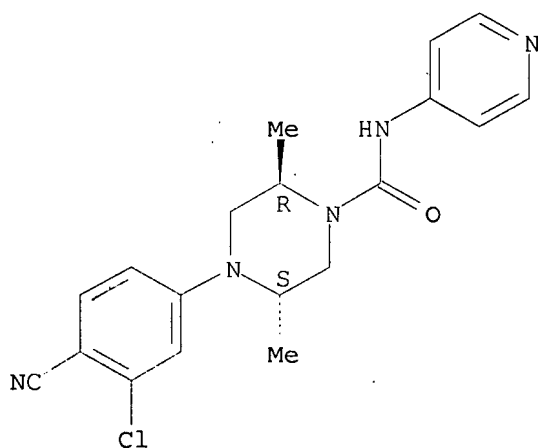
10/513699



RN 262295-16-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-(3-chloro-4-cyanophenyl)-2,5-dimethyl-N-4-pyridinyl-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



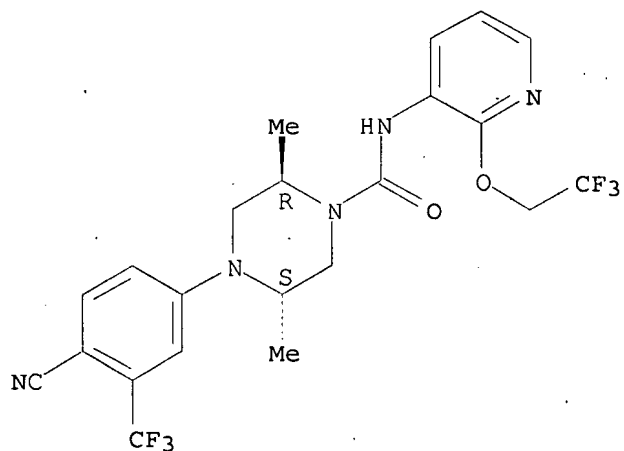
● HCl

RN 262295-17-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(2,2,2-trifluoroethoxy)-3-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

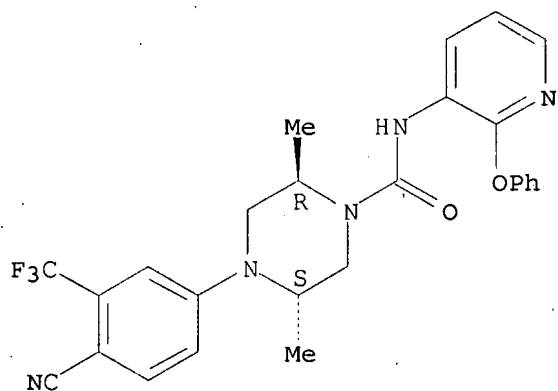
10/513699



RN 262295-18-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2-phenoxy-3-pyridinyl)-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

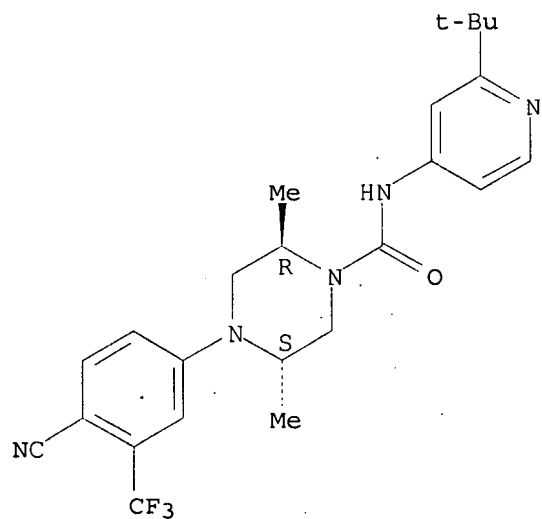


RN 262295-19-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-[2-(1,1-dimethylethyl)-4-pyridinyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

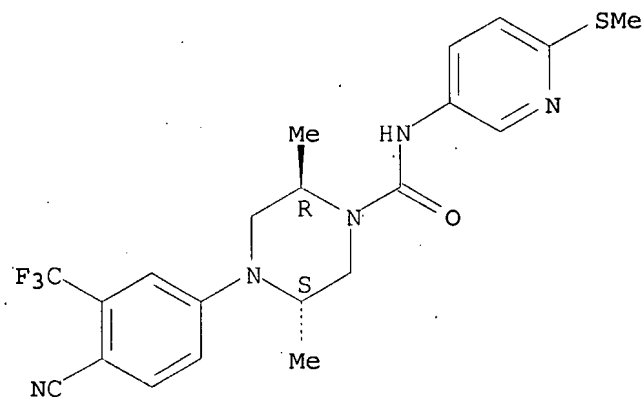
10/513699



RN 262295-20-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(methylthio)-3-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

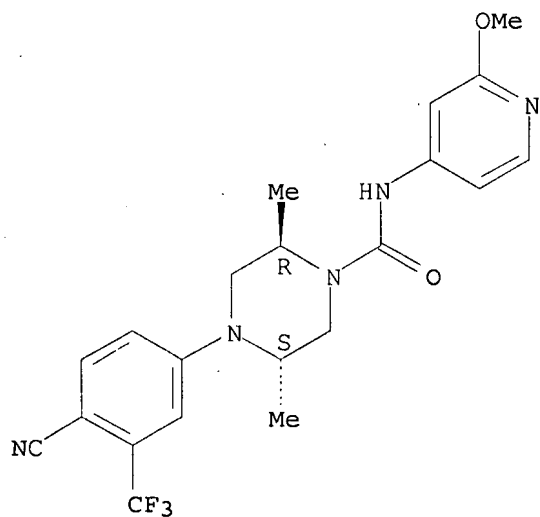


RN 262295-24-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-methoxy-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

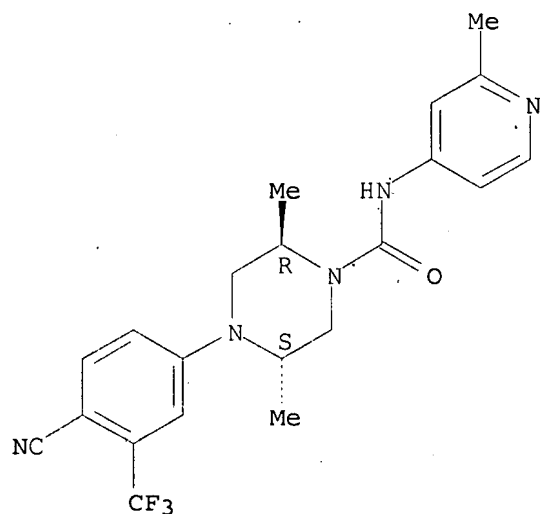
10/513699



RN 262295-25-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(2-methyl-4-pyridinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

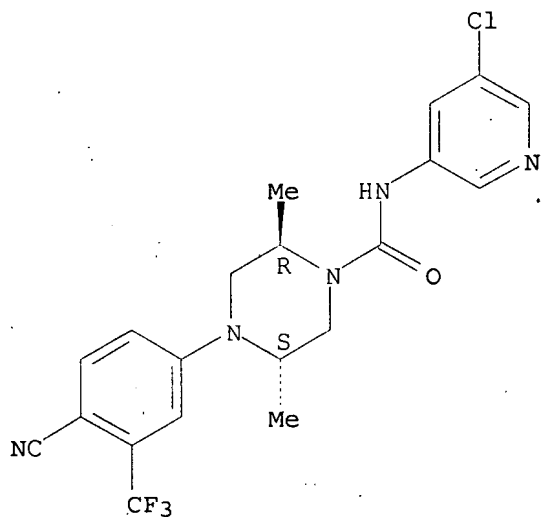


RN 262295-28-3 CAPLUS

CN 1-Piperazinecarboxamide, N-(5-chloro-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

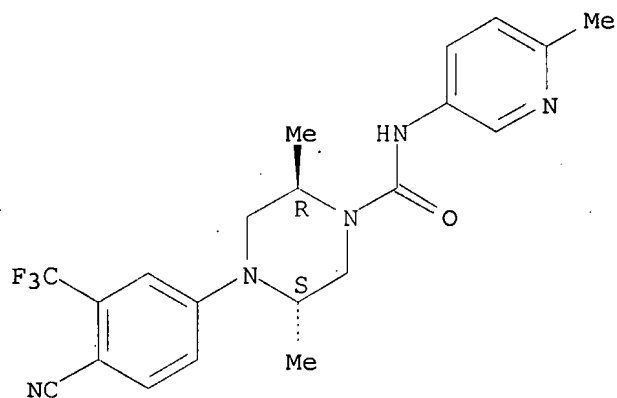
10/513699



RN 262295-29-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-(6-methyl-3-pyridinyl)-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

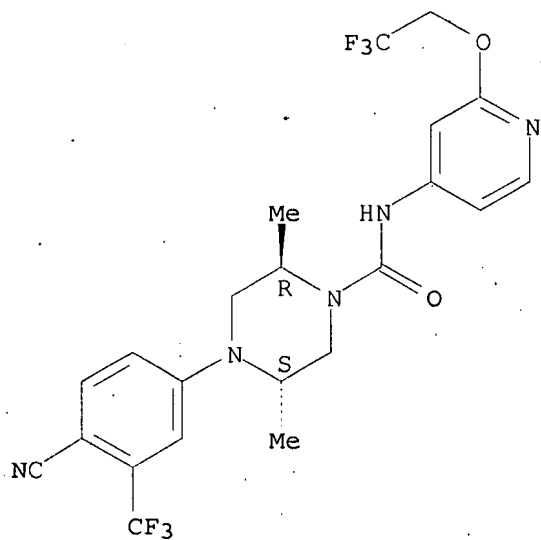


RN 262295-30-7 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(2,2,2-trifluoroethoxy)-4-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

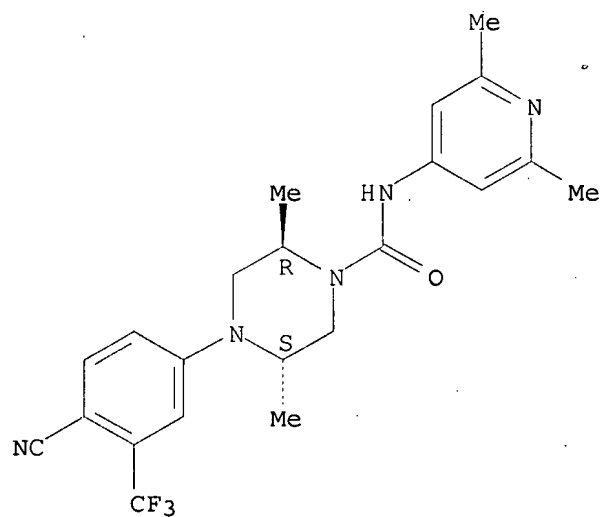
10/513699



RN 262295-31-8 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2,6-dimethyl-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

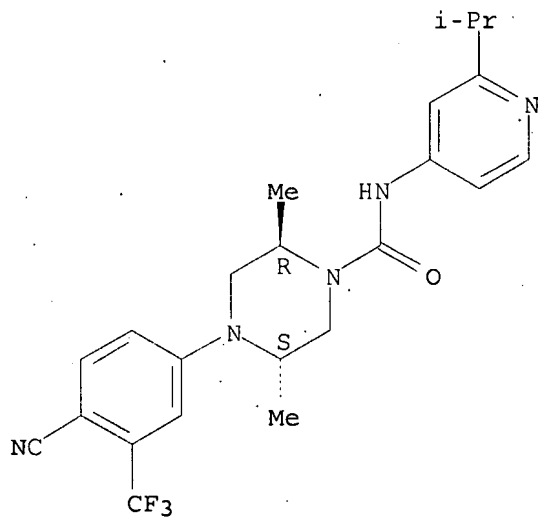


RN 262295-32-9 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(1-methylethyl)-4-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

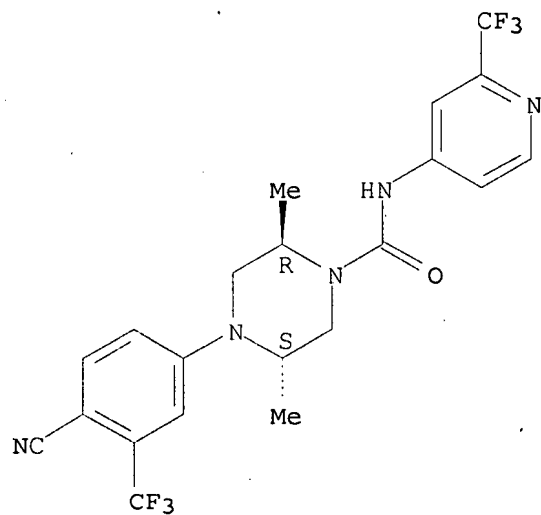
10/513699



RN 262295-33-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(trifluoromethyl)-4-pyridinyl]-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

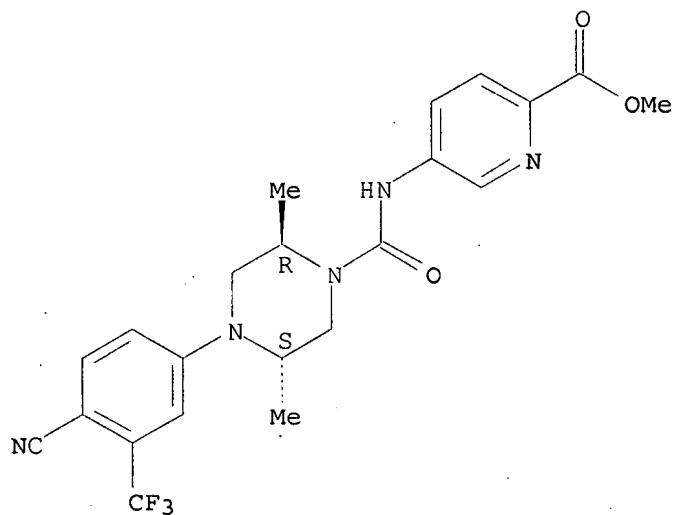


RN 262295-36-3 CAPLUS

CN 2-Pyridinecarboxylic acid, 5-[[[(2R,5S)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-1-piperazinyl]carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

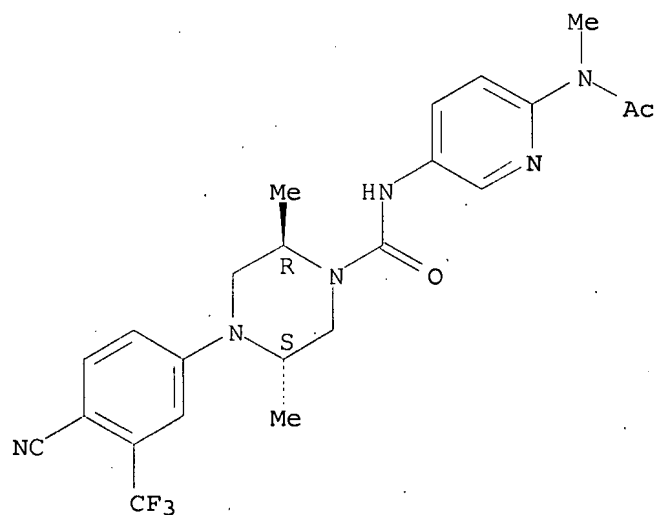
10/513699



RN 262295-38-5 CAPLUS

CN 1-Piperazinecarboxamide, N-[6-(acetylmethylamino)-3-pyridinyl]-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

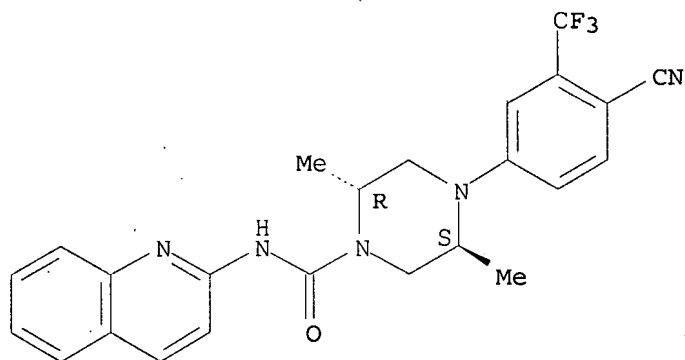


RN 262295-39-6 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-2-quinolinyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

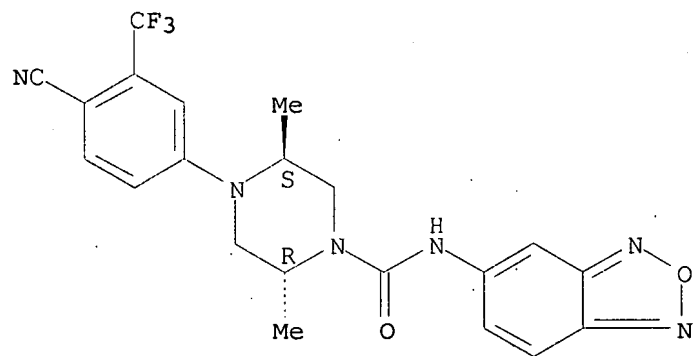
10/513699



RN 262295-40-9 CAPLUS

CN 1-Piperazinecarboxamide, N-2,1,3-benzoxadiazol-5-yl-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

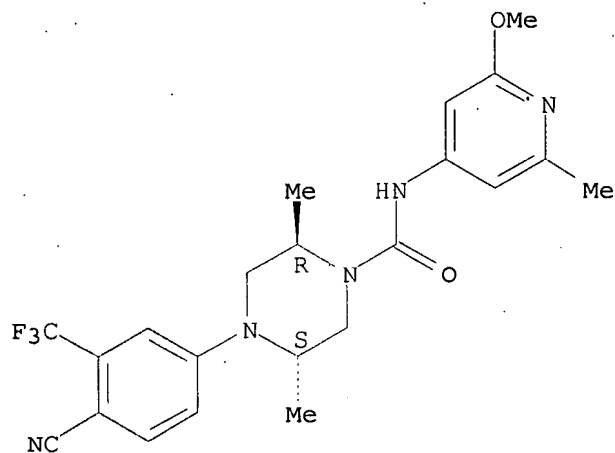
Absolute stereochemistry.



RN 262295-41-0 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-methoxy-6-methyl-4-pyridinyl)-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



<12/04/2007>

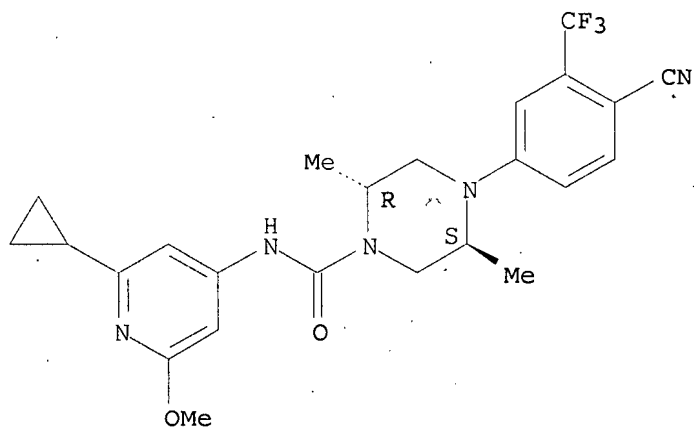
Erich Leese

10/513699

RN 262295-42-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-cyclopropyl-6-methoxy-4-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

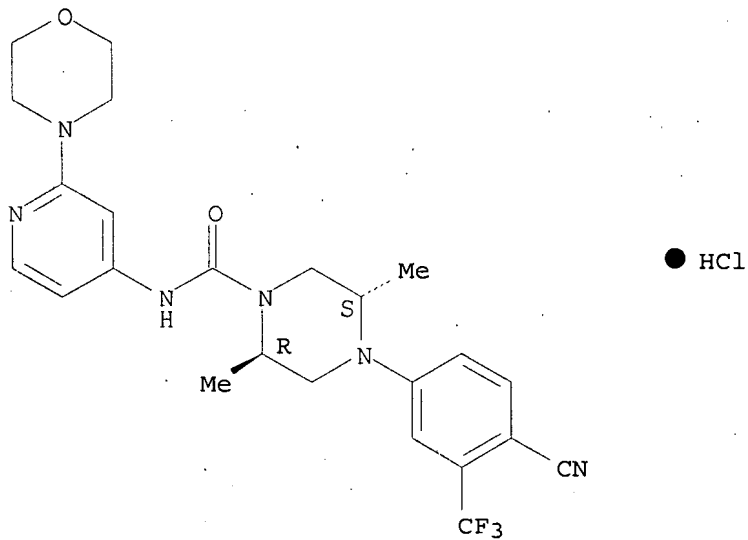
Relative stereochemistry.



RN 262295-43-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-(4-morpholinyl)-4-pyridinyl]-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

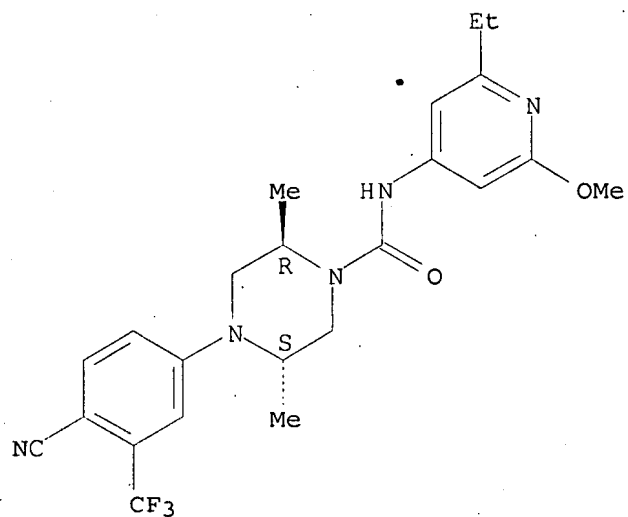


RN 262295-44-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-N-(2-ethyl-6-methoxy-4-pyridinyl)-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

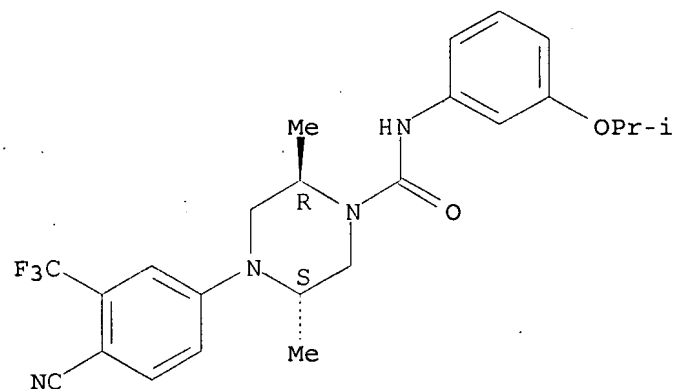
10/513699



RN 262295-45-4 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[3-(1-methylethoxy)phenyl]-, monohydrochloride, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



● HCl

RN 262295-46-5 CAPLUS

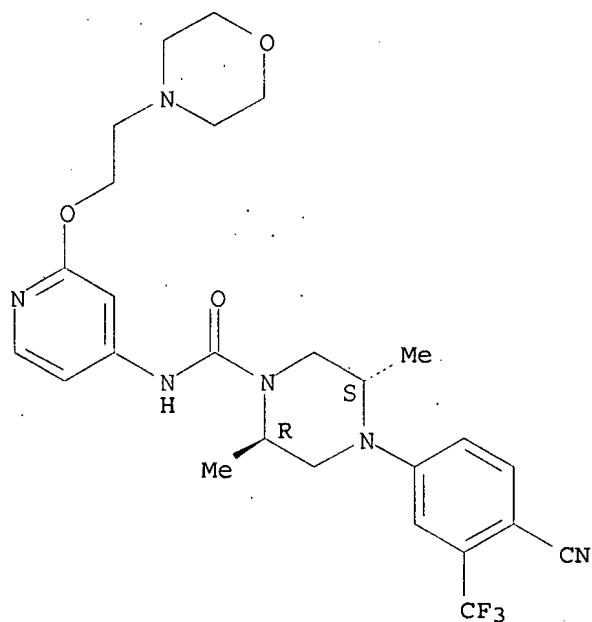
CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-[2-(4-morpholinyl)ethoxy]-4-pyridinyl]-, dihydrochloride, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Erich Leese

10/513699

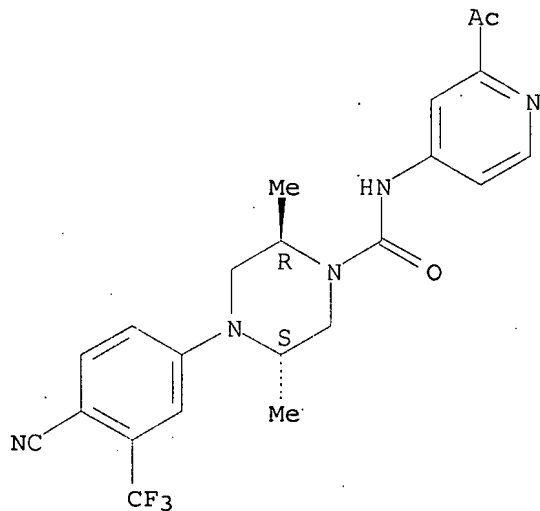


● 2 HCl

RN 262295-47-6 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-acetyl-4-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

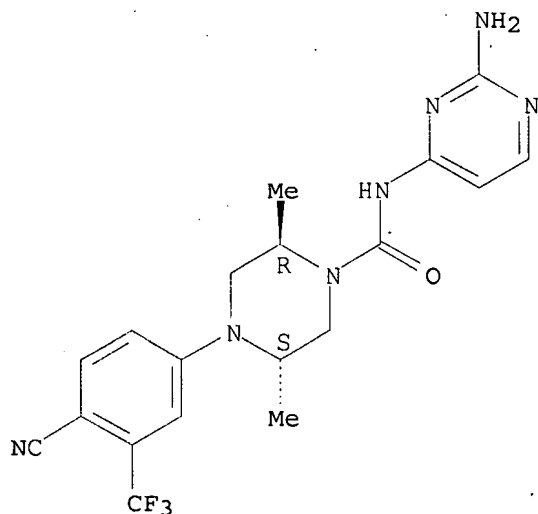


RN 262295-48-7 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-amino-4-pyrimidinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

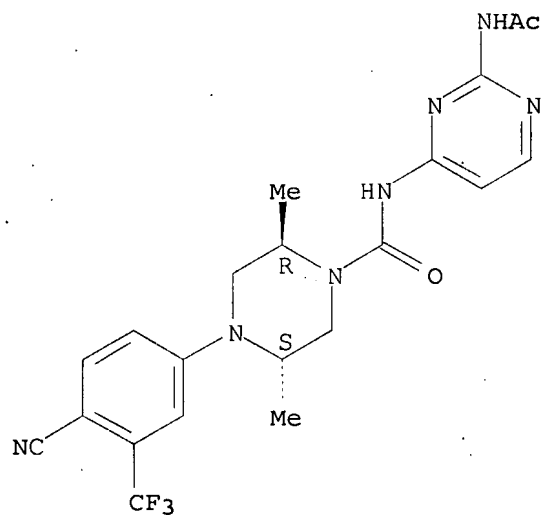
10/513699



RN 262295-49-8 CAPLUS

CN 1-Piperazinecarboxamide, N-[2-(aminomethyl)-4-pyrimidinyl]-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

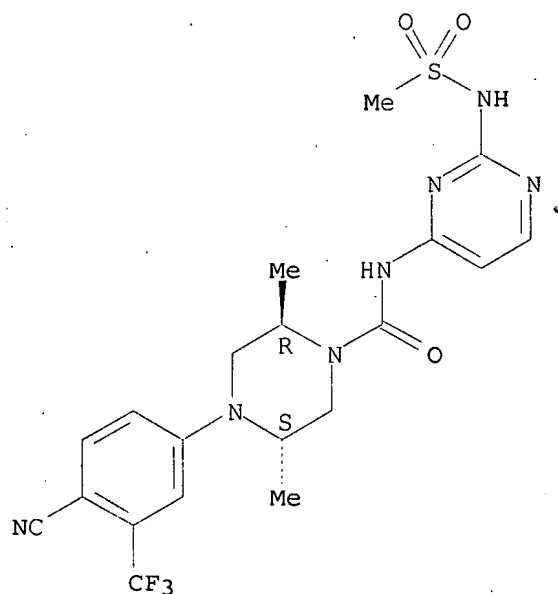


RN 262295-50-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[2-[(methylsulfonyl)amino]-4-pyrimidinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

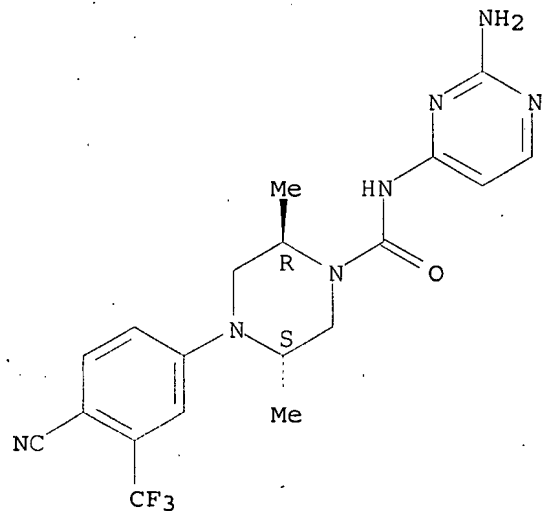
10/513699



RN 262295-51-2 CAPLUS

CN 1-Piperazinecarboxamide, N-(2-amino-4-pyrimidinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

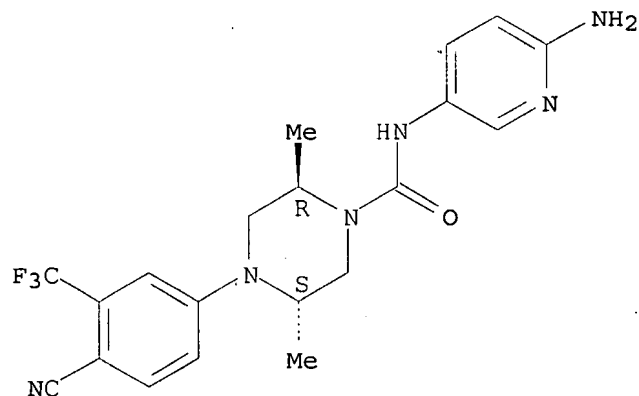


RN 262295-52-3 CAPLUS

CN 1-Piperazinecarboxamide, N-(6-amino-3-pyridinyl)-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

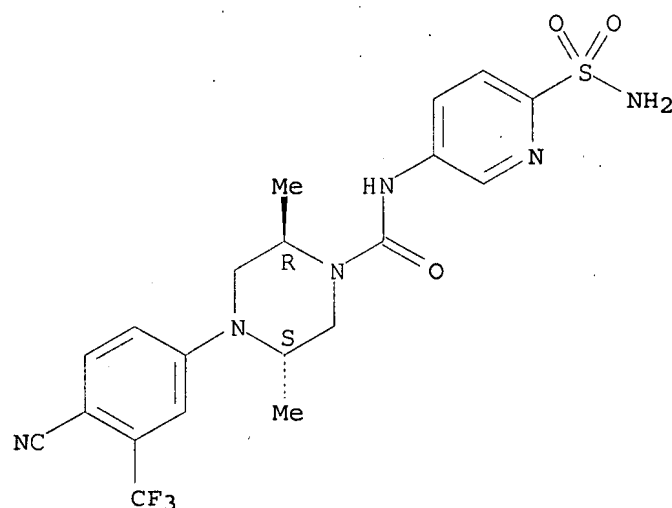
10/513699



RN 262295-53-4 CAPLUS

CN 1-Piperazinecarboxamide, N-[6-(aminosulfonyl)-3-pyridinyl]-4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 262296-09-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

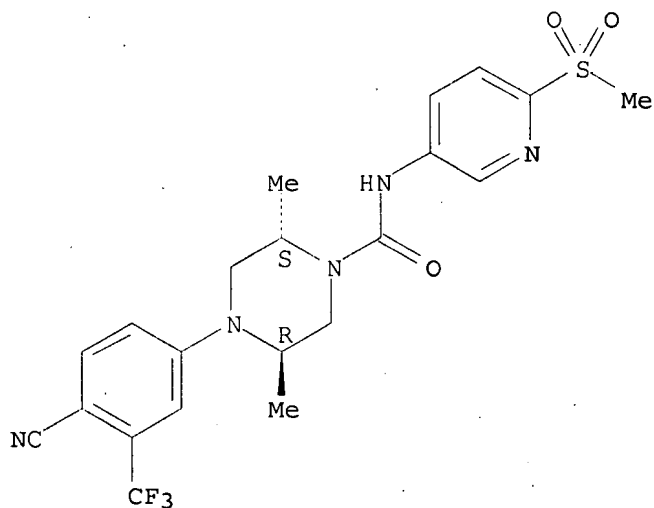
(preparation of piperazino-substituted cyanophenyl derivs. as antiandrogen agents)

RN 262296-09-3 CAPLUS

CN 1-Piperazinecarboxamide, 4-[4-cyano-3-(trifluoromethyl)phenyl]-2,5-dimethyl-N-[6-(methylsulfonyl)-3-pyridinyl]-, (2R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

10/513699



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D HIS

(FILE 'HOME' ENTERED AT 14:58:59 ON 03 JUL 2007)

FILE 'REGISTRY' ENTERED AT 15:01:27 ON 03 JUL 2007

L1 STRUCTURE UPLOADED

L2 12 S L1

L3 242 S L1 FULL

FILE 'CAPLUS' ENTERED AT 15:02:10 ON 03 JUL 2007

L4 5 S L3 FULL